

Product Data Sheet

PDGF R alpha Protein, Human (HEK293, His)

Cat. No.: HY-P72495

Synonyms: Platelet-derived growth factor receptor alpha; PDGF-R-alpha; PDGFR-2; CD140a; PDGFRA

Species: Source: HEK293

P16234 (Q24-E524) Accession:

Gene ID: 5156

Molecular Weight: Approximately 93 kDa

PROPERTIES

QLSLPSILPN ENEKVVQLNS SFSLRCFGES EVSWQYPMSE EESSDVEIRN EENNSGLFVT VLEVSSASAA HTGLYTCYYN HTQTEENELE GRHIYIIVPD PDVAFVPLGM TDYLVIVEDD DSAIIPCRTT DPETPVTLHN SEGVVPASYD SRQGFNGTFT VGPYICEATV KGKKFQTIPF NVYALKATSE LDLEMEALKT VYKSGETIVV TCAVFNNEVV DLQWTYPGEV KGKGITMLEE IKVPSIKLVY TLTVPEATVK DSGDYECAAR QATREVKEMK KVTISVHEKG FIEIKPTFSQ LEAVNLHEVK HFVVEVRAYP PPRISWLKNN LTLIENLTEI TTDVEKIQEI RYRSKLKLIR AKEEDSGHYT IVAQNEDAVK SYTFELLTQV PSSILDLVDD HHGSTGGQTV RCTAEGTPLP DIEWMICKDI KKCNNETSWT ILANNVSNII TEIHSRDRST VEGRVTFAKV EETIAVRCLA KNLLGAENRE LKLVAPTLRS E Appearance Lyophilized powder. Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4. Endotoxin Level <1EU/µg, determined by LAL method. Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C for extended storage. Shipping Room temperature in continental US; may vary elsewhere.	AA Sequence				
HTQTEENELE GRHIYIYVPD PDVAFVPLGM TDYLVIVEDD DSAIIPCRTT DPETPVTLHN SEGVVPASYD SRQGFNGTFT VGPYICEATV KGKKFQTIPF NVYALKATSE LDLEMEALKT VYKSGETIVV TCAVFNNEVV DLQWTYPGEV KGKGITMLEE IKVPSIKLVY TLTVPEATVK DSGDYECAAR QATREVKEMK KVTISVHEKG FIEIKPTFSQ LEAVNLHEVK HFVVEVRAYP PPRISWLKNN LTLIENLTEI TTDVEKIQEI RYRSKLKLIR AKEEDSGHYT IVAQNEDAVK SYTFELLTQV PSSILDLVDD HHGSTGGQTV RCTAEGTPLP DIEWMICKDI KKCNNETSWT ILANNVSNII TEIHSRDRST VEGRVTFAKV EETIAVRCLA KNLLGAENRE LKLVAPTLRS E Appearance Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/µg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.			SFSLRCFGES	•	
DSAIIPCRTT DPETPVTLHN SEGVVPASYD SRQGFNGTFT VGPYICEATV KGKKFQTIPF NVYALKATSE LDLEMEALKT VYKSGETIVV TCAVFNNEVV DLQWTYPGEV KGKGITMLEE IKVPSIKLVY TLTVPEATVK DSGDYECAAR QATREVKEMK KVTISVHEKG FIEIKPTFSQ LEAVNLHEVK HFVVEVRAYP PPRISWLKNN LTLIENLTEI TTDVEKIQEI RYRSKLKLIR AKEEDSGHYT IVAQNEDAVK SYTFELLTQV PSSILDLVDD HHGSTGGQTV RCTAEGTPLP DIEWMICKDI KKCNNETSWT ILANNVSNII TEIHSRDRST VEGRVTFAKV EETIAVRCLA KNLLGAENRE LKLVAPTLRS E Appearance Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Endotoxin Level <1EU/µg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH20. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		EESSDVEIRN EENNSGLFVT	VLEVSSASAA	HTGLYTCYYN	
VGPYICEATV KGKKFQTIPF NVYALKATSE LDLEMEALKT VYKSGETIVV TCAVFNNEVV DLQWTYPGEV KGKGITMLEE IKVPSIKLVY TLTVPEATVK DSGDYECAAR QATREVKEMK KVTISVHEKG FIEIKPTFSQ LEAVNLHEVK HFVVEVRAYP PPRISWLKNN LTLIENLTEI TTDVEKIQEI RYRSKLKLIR AKEEDSGHYT IVAQNEDAVK SYTFELLTQV PSSILDLVDD HHGSTGGQTV RCTAEGTPLP DIEWMICKDI KKCNNETSWT ILANNVSNII TEIHSRDRST VEGRVTFAKV EETIAVRCLA KNLLGAENRE LKLVAPTLRS E Appearance Lyophilized prowder. Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/µg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		HTQTEENELE GRHIYIYVPD	PDVAFVPLGM	TDYLVIVEDD	
V Y K S G E T I V V T C A V F N N E V V D L QWT Y P G E V K G K G I T M L E E I K V P S I K L V Y T L T V P E A T V K D S G D Y E C A A R Q A T R E V K E M K K V T I S V H E K G F I E I K P T F S Q L E A V N L H E V K H F V V E V R A Y P P P R I S W L K N N L T L I E N L T E I T D V E K I Q E I R Y R S K L K L I R A K E E D S G H Y T I V A Q N E D A V K S Y T F E L L T Q V P S S I L D L V D D H H G S T G G Q T V R C T A E G T P L P D I E W M I C K D I K K C N N E T S W T I L A N N V S N I I T E I H S R D R S T V E G R V T F A K V E E T I A V R C L A K N L L G A E N R E L K L V A P T L R S E Appearance Lyophilized powder. Formulation Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/m L in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		DSAIIPCRTT DPETPVTLHN	SEGVVPASYD	SRQGFNGTFT	
I K V P S I K L V Y T L T V P E A T V K D S G D Y E C A A R Q A T R E V K E M K K V T I S V H E K G F I E I K P T F S Q L E A V N L H E V K H F V V E V R A Y P P P R I S W L K N N L T L I E N L T E I T T D V E K I Q E I R Y R S K L K L I R A K E E D S G H Y T I V A Q N E D A V K S Y T F E L L T Q V P S S I L D L V D D H H G S T G G Q T V R C T A E G T P L P D I E W M I C K D I K K C N N E T S W T I L A N N V S N I I T E I H S R D R S T V E G R V T F A K V E E T I A V R C L A K N L L G A E N R E L K L V A P T L R S E Appearance Lyophilized powder. Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/m L in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		V G P Y I C E A T V K G K K F Q T I P F	NVYALKATSE	LDLEMEALKT	
K V T I S V H E K G		V Y K S G E T I V V T C A V F N N E V V	DLQWTYPGEV	KGKGITMLEE	
PPRISWLKNN LTLIENLTEI TTDVEKIQEI RYRSKLKLIR AKEEDSGHYT IVAQNEDAVK SYTFELLTQV PSSILDLVDD HHGSTGGQTV RCTAEGTPLP DIEWMICKDI KKCNNETSWT ILANNVSNII TEIHSRDRST VEGRVTFAKV EETIAVRCLA KNLLGAENRE LKLVAPTLRS E Appearance Lyophilized powder. Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4. Endotoxin Level <1EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		IKVPSIKLVY TLTVPEATVK	DSGDYECAAR	QATREVKEMK	
A K E E D S G H Y T I V A Q N E D A V K S Y T F E L L T Q V P S S I L D L V D D H H G S T G G Q T V R C T A E G T P L P D I E W M I C K D I K K C N N E T S W T I L A N N V S N I I T E I H S R D R S T V E G R V T F A K V E E T I A V R C L A K N L L G A E N R E L K L V A P T L R S E Appearance Lyophilized powder. Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		KVTISVHEKG FIEIKPTFSQ	LEAVNLHEVK	HFVVEVRAYP	
H H G S T G G Q T V R C T A E G T P L P D I E W M I C K D I K K C N N E T S W T I L A N N V S N I I T E I H S R D R S T V E G R V T F A K V E E T I A V R C L A K N L L G A E N R E L K L V A P T L R S E Appearance Lyophilized powder. Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		PPRISWLKNN LTLIENLTEI	TTDVEKIQEI	RYRSKLKLIR	
Appearance Lyophilized powder. Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Endotoxin Level All is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		A K E E D S G H Y T I V A Q N E D A V K	SYTFELLTQV	PSSILDLVDD	
Appearance Lyophilized powder. Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		HHGSTGGQTV RCTAEGTPLP	DIEWMICKDI	KKCNNETSWT	
Appearance Lyophilized powder. Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		ILANNVSNII TEIHSRDRST	VEGRVTFAKV	EETIAVRCLA	
Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		KNLLGAENRE LKLVAPTLRS	E		
Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/μg, determined by LAL method.					
Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Endotoxin Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.					
Endotoxin Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	Appearance	Lyophilized powder.			
Endotoxin Level <1 EU/μg, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	- 10				
Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.			
Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	- 1				
recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	Endotoxin Level	<1 EU/μg, determined by LAL method.			
recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	B itituuti	It is not recommended to reconstitute to a consentration less than 100 up/ml in ddl. O Feyler - towns it is			
Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	Reconstitution				
recommended to freeze aliquots at -20°C or -80°C for extended storage.		recommended to add a carrier protein (0.1% doa, 5% noa, 10% rds or 5% frenatose).			
recommended to freeze aliquots at -20°C or -80°C for extended storage.	Storago & Stability	Stored at 20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or 20°C for langer (with service protein). It is			
	Storage & Stability				
Shipping Room temperature in continental US; may vary elsewhere.		recommended to meeze anyuous at -20 e or -00 e for extended storage.			
Simpping Room temperature in continental US; may vary eisewhere.	Chinning	Doors town gratius in continental LIC was a second	horo		
	Sillphilig	Room temperature in continental 03, may vary eisewhere.			

DESCRIPTION

Page 1 of 2 www. Med Chem Express. com

Background

PDGF R alpha, a tyrosine-protein kinase, assumes a pivotal role as a cell-surface receptor for PDGFA, PDGFB, and PDGFC, exerting significant influence over embryonic development, cell proliferation, survival, and chemotaxis. Its impact on cell behavior varies, as it can either promote or inhibit cell proliferation and migration based on contextual cues. The receptor's indispensable role extends to the differentiation of bone marrow-derived mesenchymal stem cells and is critical for normal skeletal development, embryonic cephalic closure, and the formation of the gastrointestinal mucosa. Moreover, PDGF R alpha contributes to the recruitment of mesenchymal cells and the development of intestinal villi. It plays a crucial role in wound healing by influencing cell migration and chemotaxis. PDGF R alpha's engagement with its ligands activates diverse signaling cascades, modulated by ligand specificity and influenced by heterodimer formation between PDGFRA and PDGFRB. The receptor phosphorylates key targets such as PIK3R1, PLCG1, and PTPN11, triggering downstream events like the AKT1 signaling pathway activation and induction of MAP kinase and STAT family members. The dynamic regulation of PDGF R alpha signaling involves the interplay of protein phosphatases and rapid internalization of the activated receptor to finely tune its cellular responses.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com