

Product Data Sheet

CD316/IGSF8 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76985		
Synonyms:	Immunoglobulin superfamily member 8; EWI-2; KCT-4; LIR-D1; PGRL; CD316; IGSF8		
Species:	Mouse		
Source:	HEK293		
Accession:	Q8R366 (R26-T577)		
Gene ID:	140559		
Molecular Weight:	Approximately 65-77 kDa due to the glycosylation.		

PROPERTIES

RQVHVPRGPLYRVAGTAVSISCNVSDYEGPAQQPFEWFMY RPEAPATSLGRPEAPATSLGIVSTKDSQFSYAVFGPRVASGDLQVQRLKGRVLPDELQVSAAPPGPRGRQAATSPSRLTVHEGQELALGCLAQTKTKKHTHLSVSFGRAIPEAPVGRATLQEVVGLRSDMAVEAGAPYAERLASGELRLSKEGTDRYRMVVGGQAGDSGTYHCTAAEWIQDPGSWVQVAEKRAVLAHVDVQTLSSQLAVTVGPGERRIGPGEPLELLCNVSGALPPPGRHAAYSVGWEMAPAGAPGPGRLVAQLDTEGIGSLGPGYDRHIAMEKVASRTYRLRLEAARPADAGTYRCLAKAYVRGSGTRLEAASARSRPLPVHVREEGVLEAVAWLAGGTVYRGETASLLCNISVRGGPPGLRLAASWWVERPEEGELSSGPAQLVGGVGQDGVAELGVRPGGGPVSVELVGPRSHRLRHGLGPEDEGIYHCAPSWVQHADYSWYQAGSARSGPVTVVPYTHAVDTHotoxin LevelFormulationLyophilized powderLoophilized from a 0.2 µm filtered solution of PBS, pH 7.4.Endotoxin Level<1EU/µg, determined by LAL method.ReconsititutionIt is not reconstitute to a concentration less than 100 µg/mL in ddH20.Storage & StabilityStored 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.ShippingRoom temperature in continental US; may vary elsewhere.	AA Sequence							
DSVVLKIARLQAQDSGFYECYTPSTDTQYLGNYSAKVELRVLPDELQVSAAPPGPRGRQAATSPSRLTVHEQELALGCLAQTKTKKHTHLSVSFGRAIPEAPVGRATLQEVVGLRSDMAVEAGAPYAERLASGELRLSKEGTDRYRWVGGAQAGDSGTYHCTAAEWIQDPDGSWVQVAEKRAVLAHVDVQTLSSQLAVTVGPGERRIGPGEPLELLCNVSGALPPPGRHAAYSVGWEMAPAGAPGPGRLVAQLDTEGIGSLGPGYEDRHIAMEKVASRTYRLRLEAARPADAGTYRCLAKAYVRGSGTRLREAASARSRPLPVHVREEGVLEAVAULAGGTVYRGETASLLCNISVRGGPPGLRLAASWWVERPEEGELSSGPAQLVGGVGQDGVAELGVRPGGGPVSVELVGPRSHRLRLHGLGPEDEGIYHCAPSAWVQHADYSWYQAGSARSGPVTVYPYTHAVDTBiological ActivityMeasured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED50AppearanceLyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.Endotoxin Level<1 EU/µg, determined by LAL method.		RQVHVPRGPL	YRVAGTAVSI	SCNVSDYEGP	AQQDFEWFMY			
VLPDELQVSAAPPGPRGRQAATSPSRLTVHEGQELALGCLAQTKTKKHTHLSVSFGRAIPEAPVGRATLQEVVGLRSDMAVEAGAPYAERLASGELRLSKEGTDRYRMVVGGAQAGDSGTYHCTAAEWIQDPDGSWVQVAEKRAVLAHVDVQLSSQLAVTVGPGERIGPGEPLELCNVSGALPPPGHAAYSVGWEMAPAGAPGPGRLVAQLDTEGIGSLGPGYEDRHIAMEKVASRTYRLRLEAARPADAGTYRCLAKAYVRGSGTRLREAASARSRPLPVHVREEGVVLEAVAWLAGGTVYRGETASLLCNISVRGGPPGLRLAASWWVERPEEGELSSGPAQUVGGVGQDGVAELGVRPGGGPVSVELVGPRSHRLRLHGLGPEDEGIYHCAPSAWVQHADYSWYQAGSARSGPVTVYPYTHAVDTBiological ActivityMeasured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED ₅₀ AppearanceLyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.Endotoxin Level<1EU/µg, determined by LAL method.		R P E A P A T S L G	IVSTKDSQFS	YAVFGPRVAS	GDLQVQRLKG			
A Q T K T K K H T HL S V S F G R A I PE A P V G R A T L QE V V G L R S D M AV E A G A P Y A E RL A S G E L R L S KE G T D R Y R M V VG G A Q A G D S G TY H C T A A E W I QD P D G S W V Q V AE K R A V L A H V DV Q T L S S Q L A VT V G P G E R R I GP G E P L E L L C NV S G A L P P P G RH A A Y S V G WE MA P A G A P G P G RL V A Q L T E G IG S L G P G Y E D RH A A Y S V G WE MA P A G A P G P G RL V A Q L T E G IG S L G P G Y E D RH A M E K V A S RT Y R L R L E A A RP A D A G T Y R C LA K A Y V R G S G TR L R E A A S A R SR P L P V H V R E EG V L E A V A W LA G G T V Y R G TA S LL C N I S V RG G P P G L R L A AS W V E R P E E GE L S S G P A Q L VG C V G Q D G V A EL G V R P G G G P VS V E L V G P R S HR L R L H G L G P ED E G I Y H C A P SA W V Q H A D Y S WY Q A G S A R S G PV T V Y P Y T H A VD TBiological ActivityMeasured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED 50CD81. The ED 50AppearanceL yophilized from a 0.2 µm filtered solution of PBS, pH 7.4.Endotoxin LevelFormulationL yophilized from a 0.2 µm filtered solution of PBS, pH 7.4.Endotoxin LevelReconsititutionIt is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH20.Storeg 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 ali		DSVVLKIARL	QAQDSGFYEC	YTPSTDTQYL	GNYSAKVELR			
VE A G A P Y A E RL A S G E L R L S KE G T D R Y R M V VG G A Q A G D S G TY H C T A A E WI QD P D G S W V Q Y AE K R A V L A H V DV Q T L S S Q L A VT V G P G E R R I GP G E P L E L L C NV S G A L P P P G RH A A Y S V G W E MA P A G A P G P G RL V A Q L D T E G IG S L G P G Y E D RH I A M E K V A S RT Y R L R L E A A RP A D A G T Y R C LA K A Y V R G S G TR L R E A A S A R SR P L P V H V R E EG V L E A V A W LA G G T V Y R G E TA S L L C N I S V RG G P P G L R L A AS W W V E P P E GE L S S G P A Q L VG C V G Q D G V A EL G V R P G G G P VS V E L V G P R S HR L R L H G L G P ED E G I Y H C A P SA W V Q H A D Y S WY Q A G S A R S G PV T V Y P Y T H A VD TBiological ActivityMeasured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED ₅₀ CD81. The ED ₅₀ AppearanceL yophilized from a 0.2 µm filtered solution of PBS, pH 7.4.EEndotoxin Level<1 EU/µg, determined by LAL method.ReconsititutionIt is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.Storage & StabilityStored 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.		VLPDELQVSA	APPGPRGRQA	ATSPSRLTVH	EGQELALGCL			
WHCTAAEWIQ TVGPGERRIG PGEPLELLCNDPDGSWVQVA EKRAVLAHVD VSGALPPPGR HAAYSVGWEM APAGAPGPGR LVAQLDTEGI GSLGPGYEDR HIAMEKVASR TYRLRLEAAR PADAGTYRCL AKAYVRGSGT RLREAASARS RPLPVHVREE GVVLEAVAWL AGGTVYRGET AKAYVRGSGT RLREAASARS RPLPVHVREE GVVLEAVAWL AGGTVYRGET ASGTVYRGET ASLCNISVR GGPPGLRLAA SWWVQHADYSW VQAGSARSGP VTVYPYTHAV DTVQTLSSQLAV HAAYSVGWEM AKAYVRGSGT RLREAASARS RSLCNISVR GGVGQDGVAE LGVRPGGPV SVELVGPRSH RLRLHGLGPE DEGIYHCAPS DEGIYHCAPS DTBiological Activity CDB1 The ED50Measured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED50Appearance Endotoxin LevelLyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.Endotoxin Level<1 EU/µg, determined by LAL method.		АQТКТККНТН	LSVSFGRAIP	EAPVGRATLQ	EVVGLRSDMA			
TV G P G E R R I G A P A G A P G P G E P L E L L C N A P A G A P G P G R TY R L R L E A A R R P A D A G P G P G R TY R L R L E A A R R P A D A G T Y R C L G G P P G L R L A A G G P P G L R L A A S WW V E R P E E G G G P P G L R L A A S WW V E R P E E G L G V R P G G G P V S V E L V G P R S H R L R L H G L G P E R L R L H G L G P E D E G I Y H C A P S D		VEAGAPYAER	LASGELRLSK	EGTDRYRMVV	G G A Q A G D S G T			
A P A G A P G P G R T Y R L R L E A A R P A D A G T Y R C L R P A D A G T Y R C L A K A Y V R G S G T A K A Y V R G S G T R L R E A A S A R S R P L P V H V R E E G V V L E A V A W L A G G T V Y R G E T A S L L C N I S V R G G P P G L R L A A S WW V E R P E E G L G V R P G G G P V S V E L V G P R S H A W V Q H A D Y S W Y Q A G S A R S G P V T V Y P Y T H A V D TH I A M E K V A S R R L R L A G G T V Y R G E T A S L L C N I S V R G G V G Q D G V A E D E G I Y H C A P S D TBiological ActivityMeasured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED ₅₀ AppearanceLyophilized powderFormulationLyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.Endotoxin Level<1 EU/µg, determined by LAL method.		ΥΗСΤΑΑΕΨΙQ	D P D G S W V Q V A	EKRAVLAHVD	VQTLSSQLAV			
TYRLRLEAAR RPLPVHVREE GGPPGLRLAA SWWVERPEEG LGVRPGGGPV AWUL AGGTVRGET ASLLCNISVR GGPPGLRLAA SWWVERPEEG LGVRPGGGPV AWVQHADYSW YQAGSARSGPAKAYVRGSGT AGGTVYRGET AGGTVYRGET ASLLCNISVR GGVQDGVAE LGSVGQDGVAE DEGIYHCAPS DTBiological Activity Appearance FormulationMeasured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED50Appearance FormulationLyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.Endotoxin Level<1 EU/µg, determined by LAL method.		TVGPGERRIG	PGEPLELLCN	VSGALPPPGR	HAAYSVGWEM			
RPLPVHVREE GVVLEAVAWL AGGTVYRGET ASLLCNISVR GGPPGLRLAA SWWVERPEEG ELSSGPAQLV GGVQDGVAE LGVRPGGGPV SVELVGPRSH RLRLHGLGPE DEGIYHCAPS AWVQHADYSW YQAGSARSGP VTVYPYTHAV DT Biological Activity Measured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED ₅₀ 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. Reconsitiution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH20. 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.		APAGAPGPGR	LVAQLDTEGI	GSLGPGYEDR	HIAMEKVASR			
G G P P G L R L A A S W W V E R P E E G E L S S G P A Q L V G G V G Q D G V A E L G V R P G G G P V S V E L V G P R S H R L R L H G L G P E D E G I Y H C A P S A W V Q H A D Y S W Y Q A G S A R S G P V T V Y P Y T H A V D T Biological Activity Measured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED ₅₀ 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. 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.		TYRLRLEAAR	P A D A G T Y R C L	A K A Y V R G S G T	RLREAASARS			
L G V R P G G G P V S V E L V G P R S H R L R L H G L G P E D E G I Y H C A P S A W V Q H A D Y S W Y Q A G S A R S G P V T V Y P Y T H A V D T Biological Activity Measured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED ₅₀ 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. 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.		RPLPVHVREE	GVVLEAVAWL	AGGTVYRGET	ASLLCNISVR			
A W V Q H A D Y S W Y Q A G S A R S G P V T V Y P Y T H A V D T Biological Activity Measured by its binding ability in a functional ELISA. Immobilized Mouse CD316 at 1 µg/mL can bind Biotinylated Mouse CD81. The ED ₅₀ 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. 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.		GGPPGLRLAA	SWWVERPEEG	ELSSGPAQLV	GGVGQDGVAE			
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Shipping Room temperature in continental US; may vary elsewhere.	Storage & Stability							
	Shipping	Room temperature in con	Room temperature in continental US; may vary elsewhere.					

DESCRIPTION

Background

The CD316/IGSF8 protein appears to play a pivotal role in a variety of functions attributed to CD81 and CD9, such as oocyte fertilization and potential involvement in hepatitis C virus function. Additionally, it is implicated in regulating the proliferation and differentiation of keratinocytes and may act as a negative regulator of cell motility, suppressing T-cell mobility in coordination with CD81, associating with CD82 to suppress prostate cancer cell migration, and regulating epidermoid cell reaggregation and motility on laminin-5 with CD9 and CD81 as crucial linkers. CD316/IGSF8 might also contribute to integrin-dependent morphology and motility functions, participating in the regulation of neurite outgrowth and the maintenance of the neural network in the adult brain. Interactions with CD82, CD9/tetraspanin-29, integrin alpha-3/beta-1, and integrin alpha-4/beta-1 are suggested, with additional participation in a complex composed of CD9, PTGFRN, and CD81. Furthermore, direct interaction with CD81/tetraspanin-28 is noted, emphasizing the intricate network of associations that define the diverse roles of CD316/IGSF8 in cellular processes.

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

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