

GFRA1/GDNFR-alpha-1 Protein, Human (410a.a, HEK293, His)

Cat. No.:	HY-P70384
Synonyms:	rHuGDNF family receptor alpha-1/GFRA1, His; GFR α 1; GDNF Family Receptor Alpha-1; GDNF Receptor Alpha-1; GDNFR-Alpha-1; GFR-Alpha-1; RET Ligand 1; TGF-Beta-Related Neurotrophic Factor Receptor 1; GFRA1; GDNFRA; RETL1; TRNR1
Species:	Human
Source:	HEK293
Accession:	P56159-2 (D25-K429)
Gene ID:	2674
Molecular Weight:	Approximately 60.0 kDa

PROPERTIES

AA Sequence

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D R L D C V K A S D   Q C L K E Q S C S T   K Y R T L R Q C V A   G K E T N F S L A S
G L E A K D E C R S   A M E A L K Q K S L   Y N C R C K R G M K   K E K N C L R I Y W
S M Y Q S L Q G N D   L L E D S P Y E P V   N S R L S D I F R V   V P F I S V E H I P
K G N N C L D A A K   A C N L D D I C K K   Y R S A Y I T P C T   T S V S N D V C N R
R K C H K A L R Q F   F D K V P A K H S Y   G M L F C S C R D I   A C T E R R R Q T I
V P V C S Y E E R E   K P N C L N L Q D S   C K T N Y I C R S R   L A D F F T N C Q P
E S R S V S S C L K   E N Y A D C L L A Y   S G L I G T V M T P   N Y I D S S S L S V
A P W C D C S N S G   N D L E E C L K F L   N F F K D N T C L K   N A I Q A F G N G S
D V T V W Q P A F P   V Q T T T A T T T T   A L R V K N K P L G   P A G S E N E I P T
H V L P P C A N L Q   A Q K L K S N V S G   N T H L C I S N G N   Y E K E G L G A S S
H I T T K
  
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Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level <1 EU/ μ g, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O. 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.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

GFRA1/GDNFR-alpha-1, a receptor for Glial Cell Line-Derived Neurotrophic Factor (GDNF), plays a crucial role in mediating GDNF-induced autophosphorylation and activation of the RET receptor. The proposed model suggests that two molecules of GDNFR-alpha-1 form a complex with the disulfide-linked GDNF dimer and two molecules of RET. Interaction studies confirm direct binding with RET, facilitating GDNF signaling. Furthermore, GFRA1 engages with SORL1, either independently or in complex with GDNF, leading to the internalization of GFRA1 without degradation. This intricate interplay highlights the regulatory mechanisms involved in GDNF-mediated cellular responses, shedding light on the multifaceted roles of GFRA1 in coordinating signaling events critical for cellular homeostasis and development.

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

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