

GFRA2/GDNFR-alpha-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70192
Synonyms:	rHuGDNF family receptor alpha-2/GFRA2, His ; GDNF Family Receptor Alpha-2; GDNF Receptor Alpha-2; GDNFR-Alpha-2; GFR-Alpha-2; GDNF Receptor Beta; GDNFR-Beta; Neurturin Receptor Alpha; NRTNR-Alpha; NTN-Alpha; RET Ligand 2; TGF-Beta-Related Neurotrophic Factor Receptor 2; GFRA2; GDNFRB; RETL2; TRNR2
Species:	Human
Source:	HEK293
Accession:	O00451 (S22-S441)
Gene ID:	2675
Molecular Weight:	Approximately 80.0 kDa

PROPERTIES

AA Sequence	<pre> S P S S L Q G P E L H G W R P P V D C V R A N E L C A A E S N C S S R Y R T L R Q C L A G R D R N T M L A N K E C Q A A L E V L Q E S P L Y D C R C K R G M K K E L Q C L Q I Y W S I H L G L T E G E E F Y E A S P Y E P V T S R L S D I F R L A S I F S G T G A D P V V S A K S N H C L D A A K A C N L N D N C K K L R S S Y I S I C N R E I S P T E R C N R R K C H K A L R Q F F D R V P S E Y T Y R M L F C S C Q D Q A C A E R R R Q T I L P S C S Y E D K E K P N C L D L R G V C R T D H L C R S R L A D F H A N C R A S Y Q T V T S C P A D N Y Q A C L G S Y A G M I G F D M T P N Y V D S S P T G I V V S P W C S C R G S G N M E E E C E K F L R D F T E N P C L R N A I Q A F G N G T D V N V S P K G P S F Q A T Q A P R V E K T P S L P D D L S D S T S L G T S V I T T C T S V Q E Q G L K A N N S K E L S M C F T E L T T N I I P G S N K V I K P N S </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

GFRA2, also known as GDNFR-alpha-2, serves as a receptor for neurturin (NRTN), facilitating the NRTN-induced autophosphorylation and activation of the RET receptor. In addition to its role in neurturin signaling, GFRA2 exhibits the capability to mediate GDNF signaling through the RET tyrosine kinase receptor. Notably, GFRA2 plays a role in the NRTN-induced phosphorylation of STAT3 at 'Ser-727,' highlighting its involvement in the activation of downstream signaling pathways. This multifaceted receptor thus contributes to the intricate cellular responses orchestrated by neurturin and GDNF through the RET receptor.

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

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