

GFRA1/GDNFR-alpha-1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76360
Synonyms:	GDNF family receptor alpha-1; GFR-alpha-1; GDNFRA; TRNR1
Species:	Mouse
Source:	HEK293
Accession:	P97785-2 (D25-S425)
Gene ID:	14585
Molecular Weight:	55-65 kDa.

PROPERTIES

AA Sequence	<pre> DR LDCVKASD QCLKEQSCST KYRTLRLQCVA GKETNFSLTS GLEAKDEC RS AMEALKQKSL YNCRCKRGMK KEKNCLR IYW SMYQSLQGN D LLEDSPYEPV NSRLSDIFRA VPFISVEHIS KGN NCLDA AK ACNLDDTCKK YRSAYITPCT TSMSNEVCNR RKCHKALRQF FDKVPAKHSY GMLFCSCRDV ACTERRRQTI VPVCSYEERE RPNCNLNLQDS CKTNYICRSR LADFFFTNCQP ESRSVSNCLK ENYADCLLAY SGLIGTVMTP NYIDSSSLSV APWCDCSNSG NDLEDCLKFL NFFKDNTCLK NAIQAFGN GS DVTMWQPAPP VQTTTATTTT AFRIKNKPLG PAGSENEIPT HVLPPCANLQ AQK LKSNVSG STHLCLSDND YGKDGLAGAS S </pre>
Biological Activity	Immobilized Mouse GDNF at 25 ng/mL (100 µL/well) can bind Mouse GFRA1/GDNFR-alpha-1 Protein. The ED ₅₀ for this effect is 0.3750 µg/mL.
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.
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

GFRA1, known as GDNFR-alpha-1, operates as a pivotal receptor for glial cell line-derived neurotrophic factor (GDNF). Its functional significance lies in mediating the GDNF-induced autophosphorylation and activation of the RET receptor. In this molecular interplay, two molecules of GDNFR-alpha are proposed to intricately engage with the disulfide-linked GDNF dimer, forming a complex alongside two molecules of RET. This interaction with RET underscores GFRA1's role in orchestrating signaling cascades critical for cellular responses. Moreover, GFRA1 exhibits additional complexities in its interactions, forming complexes with SORL1, either independently or alongside GDNF. Notably, the interaction between SORL1 and GFRA1 results in the internalization of GFRA1 without degradation, adding a layer of regulatory sophistication to its cellular functions.

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

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