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Datasheet for ABIN1096732

GFRA1 Protein (AA 25-429) (His tag)

Overview

Quantity:	50 µg
Target:	GFRA1
Protein Characteristics:	AA 25-429
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GFRA1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GDNF Family Receptor α -1/GFRA1 (C-6His)
Sequence:	<p>DRLDCVKASD QCLKEQSCST KYRTLRLQCVA GKETNFSLAS GLEAKDECES AMEALKQKSL YNCRCRGMK KEKNCLRIYW SMYQSLQGND LLEDSPYEPV NSRLSDIFRV VPFISVEHIP KGNNCLDAK ACNLDDICKK YRSAYITPCT TSVSNDVCNR RKCHKALRQF FDKVPAKHSY GMLFCSCRDI ACTERRRQTI VPVCSYEERE KPNCLNLQDS CKTNYICRSR LADFFTNCQP ESRSVSSCLK ENYADCLLAY SGLIGTVMTP NYIDSSSLSV APWCDCNSG NDLEECLKFL NFFKDNTCLK NAIQAFNGS DVTWQPAFP VQTTTATTTT ALRVKNKPLG PAGESNEIPT HVLPPCANLQ AQKLKSNVSG NTHLCISNGN YEKEGLGASS HITTKVDHHH HHH</p>
Characteristics:	Recombinant Human GDNF Family Receptor α -1/GFRA1 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Asp25-Lys429) of Human GFRA1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	GFRA1
Alternative Name:	gfr-alpha-1 (GFRA1 Products)
Sub Type:	Fusionprotein
Background:	<p>Glial Cell Line-Derived Neurotrophic Factor Family Receptor alpha-1 (GDNFRalpha1) is a glycosylphosphatidylinositol (GPI) linked cell surface protein belonging to GDNF-family receptor alpha subtype which consists of at least four members. GFRalpha1 and GFRalpha2 are the cognate co-receptor for the neurotrophic factor neurturin mediating the NRTN-induced autophosphorylation and activation of the RET tyrosine kinase receptor. Soluble GFRalphas released enzymatically from the cell surface by phosphatidylinositol phospholipase C, as well as recombinantly produced soluble GFRalpha1, can also bind with high affinity to GDNF and trigger the activation of Ret tyrosine kinase. Human GFRalpha1 shares 93% amino acid identity with mouse GFRalpha1. The expression of the various GFRalphas are differentially regulated in the central and peripheral nervous system, suggesting complementary roles for the GFRalphas in mediating the activities of the GDNF family of neurotrophic factors.</p> <p>Alternative Names: 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</p>
Molecular Weight:	46.28 kDa
UniProt:	P56159

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>

Handling

Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months