Datasheet for ABIN7195907

GFRA1 Protein (Fc Tag)

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1 Image

Overview

Quantity:	100 µg
Target:	GFRA1
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This GFRA1 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Rat GFRA1/GDNFRA Protein (Fc Tag)(Active)
Sequence:	Met1-Leu445
Characteristics:	A DNA sequence encoding the rat GFRA1 (Q62997) (Met1-Leu445) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	Immobilized rat His-GDNF (78-211) at 10 µg/ml (100 µl/well) can bind rat GFRA1-Fc, The EC50 of rat GFRA1-Fc is 20-46.6 ng/ml.

Target Details

Target:	GFRA1

Target Details

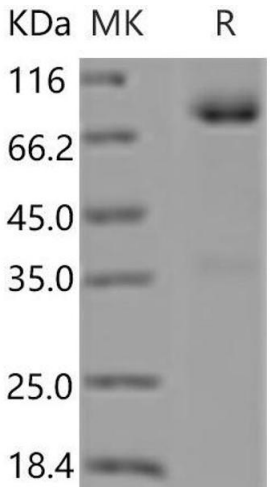
Alternative Name:	GFRA1/GDNFRA (GFRA1 Products)
Background:	Background: Glial cell line derived neurotrophic factor (GDNF) Family Receptor Alpha 1 (GFRA1) is a member of the GDNF receptor family. It is a glycosylphosphatidylinositol (GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. GFRA1 is a potent survival factor for central and peripheral neurons, and is essential for the development of kidneys and the enteric nervous system. Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are its binding ligand which are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. GDNF promotes the formation of a physical complex between GFRA/GDNFRa and the orphan tyrosin kinase receptor Ret, thereby inducing its tyrosine phosphorylation. The RET is a receptor tyrosine kinase representing the signal-transducing molecule of a multisubunit surface receptor complex for the GDNF, in which GFRA / GDNFRa acts as the ligand-binding component. GDNF, a distantly related member of the transforming growth factor-β (TGF-â) superfamily, and its receptor components: GFRA1, Ret and neural cell adhesion molecule (NCAM) have been recently reported to be expressed in the testis and to be involved in the proliferation regulation of immature Sertoli cells. Synonym: GFRA1;Gdnfra;Retl1;Trnr1;GFR alpha-1
Molecular Weight:	73.8 kDa
UniProt:	Q62997

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting
Image 1.

