

Datasheet for ABIN7320117

GFRA3 Protein (Fc Tag)

1 Image

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Overview

Quantity:	100 µg
Target:	GFRA3
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GFRA3 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Mouse GFRA3/GFR-alpha-3 Protein (Fc Tag)
Sequence:	Met 1-Arg 379
Characteristics:	A DNA sequence encoding the mouse GFRA3 (O35118) (Met 1-Arg 379), was fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 80 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	GFRA3
Alternative Name:	GFRA3/GFR-alpha-3 (GFRA3 Products)
Background:	Background: Glial cell line derived neurotrophic factor (GDNF) Family Receptor Alpha 3 (GFRA3) or GDNFRa3 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

Target Details

tyrosine kinase receptor. GFRA3 / GDNFRa3 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. The neurotrophic growth factor artemin binds selectively to GDNF family receptor $\alpha 3$ (GFRA3 / GDNFRa3), forming a molecular complex with the co-receptor RET which mediates downstream signaling. This signaling pathway has been demonstrated to play an important role in the survival and maintenance of nociceptive sensory neurons and in the development of sympathetic neurons.

Synonym: GFRalpha3;Y15110

Molecular Weight: 66.2 kDa

UniProt: [O35118](#)

Application Details

Restrictions: For Research Use only

Handling

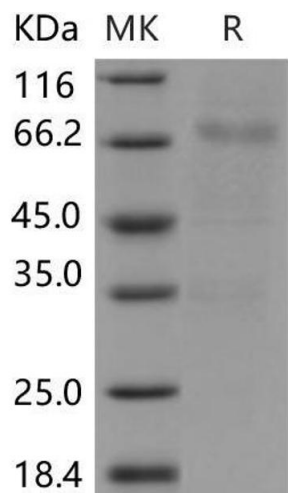
Format: Lyophilized

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.