

Datasheet for ABIN7195911  
**GFRA1 Protein (His tag)**[Go to Product page](#)

## 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 His tag.

## Product Details

Purpose:	Recombinant Rat GFRA1/GDNFRA Protein (His Tag)(Active)
Sequence:	Met 1-Leu 445
Characteristics:	A DNA sequence encoding the rat GFRA1 (Q62997-1) (Met 1-Leu 445) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	Measured in a cell proliferation assay using SH-SY5Y human neuroblastoma cells. The ED50 for this effect is typically 0.2-1 µg/mL in the presence of 40 ng/mL Recombinant Rat GDNF.

## Target Details

Target:	GFRA1
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## 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- $\beta$  (TGF- $\beta$ ) 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: 48 kDa

## Application Details

Restrictions: For Research Use only

## Handling

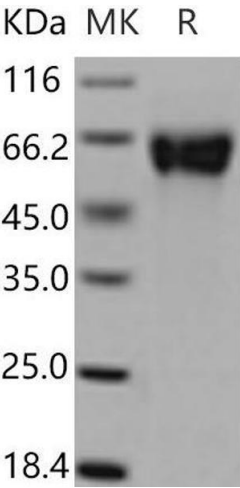
Format: Lyophilized

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.**