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Datasheet for ABIN7319604

**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
Biological Activity:	Active
Purification tag / Conjugate:	This GFRA1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human GFRA1/GDNFRA Protein (aa 25-429, His Tag)(Active)
Sequence:	Asp25-Lys429
Characteristics:	Recombinant Human GFRA1 is produced by our Mammalian expression system and the target gene encoding Asp25-Lys429 is expressed with a 6His tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human GDNF(Cat: PKSH032488) at 1.5µg/ml(100 µl/well) can bind Human GFRA1-His. The ED50 of Human GFRA1-His is 0.468 ug/ml .

## Target Details

Target:	GFRA1
Alternative Name:	GFRA1/GDNFRA ( <a href="#">GFRA1 Products</a> )
Background:	<p>Background: Glial Cell Line-Derived Neurotrophic Factor Family Receptor <math>\alpha</math>-1 (GDNFR<math>\alpha</math>1) is a glycosylphosphatidylinositol (GPI) linked cell surface protein belonging to GDNF-family receptor <math>\alpha</math> subtype which consists of at least four members. GFR<math>\alpha</math>1 and GFR<math>\alpha</math>2 are the cognate co-receptor for the neurotrophic factor neurturin mediating the NRTN-induced autophosphorylation and activation of the RET tyrosine kinase receptor. Soluble GFR<math>\alpha</math>s released enzymatically from the cell surface by phosphatidylinositol phospholipase C, as well as recombinantly produced soluble GFR<math>\alpha</math>1, can also bind with high affinity to GDNF and trigger the activation of Ret tyrosine kinase. Human GFR<math>\alpha</math>1 shares 93 % amino acid identity with mouse GFR<math>\alpha</math>1. The expression of the various GFR<math>\alpha</math>s are differentially regulated in the central and peripheral nervous system, suggesting complementary roles for the GFR<math>\alpha</math>s in mediating the activities of the GDNF family of neurotrophic factors.</p> <p>Synonym: 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

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>