

# Human CellExp™ GFRA2 /GDNFRB, human recombinant

<b>CATALOG #:</b>	7470-20	20 µg
	7470-100	100 µg
<b>ALTERNATE NAMES:</b>	GFRA2, GDNFRB, NRTNR-ALPHA, NTNRA, RETL2, TRNR2.	
<b>SOURCE:</b>	HEK 293 cells (Ser 22 – Ser 441)	
<b>PURITY:</b>	≥ 97% by SDS-PAGE gel	
<b>MOL. WEIGHT:</b>	This protein is fused with 6xHis tag at the N-terminus, has a calculated MW of 47.6 kDa. The predicted N-terminus is Ser 22. DTT-reduced Protein migrates as 60-70 kDa due to glycosylation.	
<b>ENDOTOXIN LEVEL:</b>	<1 EU/µg by LAL method	
<b>FORM:</b>	Lyophilized	

**FORMULATION:** Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

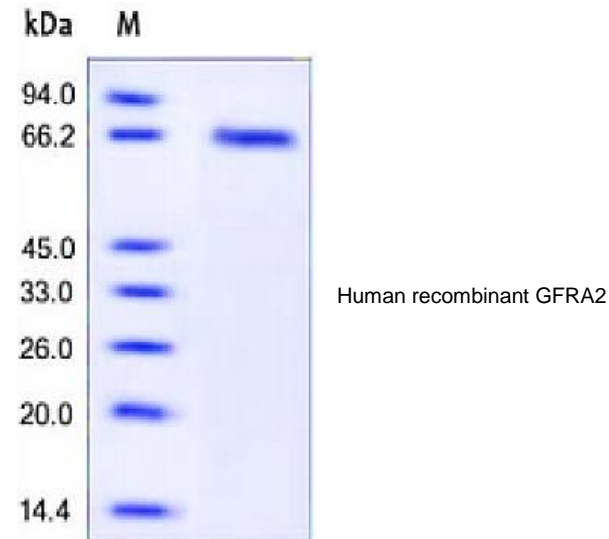
**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

**RECONSTITUTION:** Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**DESCRIPTION:** GDNF family receptor alpha-2 (GFRA2) also known as GDNF receptor beta, Neurturin receptor alpha, RET ligand 2, TGF-beta-related neurotrophic factor receptor 2, is a cell membrane protein which belongs to the GDNFR family. Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. GDNF is a glycosylated, disulfide-bonded homodimer that is distantly related to the TGF-beta superfamily of growth factors. Three receptors for these factors, GFRα-1, GFRα-2 and GFRα-3 have been identified. The isoform 1 of GFRA2 is found in both brain and placenta. GFRA2 mediates the NRTN-induced autophosphorylation and

activation of the RET receptor and also able to mediate GDNF signaling through the RET tyrosine kinase receptor. GFRA2 mediates the NRTN-induced autophosphorylation and activation of the RET receptor. It can also mediate GDNF signaling through the RET tyrosine kinase receptor.

**BIOLOGICAL ACTIVITY:** Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human Neurturin at 1 µg/ml can bind rhGFRA2 with an apparent  $K_D < 8$  nM.



#### RELATED PRODUCTS:

- TNFRSF6B, human recombinant (Cat # 7329-100)
- Human CellExp™ CD30 /TNFRSF8, human recombinant (Cat # 7389-10)
- Human CellExp™ TNFR1 / TNFRSF1A, human recombinant (Cat # 7382-10, -50)
- Human CellExp™ TNFRSF10B /TRAILR2, human recombinant (Cat # 7448-10)
- Human CellExp™ TNFRSF4/OX40 /CD134, human recombinant (Cat # 7438-10)

**FOR RESEARCH USE ONLY! Not to be used in humans.**