

Active Recombinant Rat Gfral Protein, His-tagged

Cat. No. Gfral-11092R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat GFR alpha-like, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 20 - Gly 350 (Accession # D3ZB94-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Gln 20
Species	Rat
Source	HEK293
ProteinLength	20-350 aa
Description	GFR alpha-like is also known as GDNF family receptor alpha-like, GFRAL, C6orf144, UNQ9356, PRO34128. Growth differentiation factor-15 (GDF15) is a circulating protein that has been implicated in multiple biological processes, including energy homeostasis, body weight regulation, and cachexia driven by cancer and chronic disease. GDNF family receptor α -like (GFRAL) was recently identified as the neuronal brainstem receptor responsible for mediating the anorectic actions of GDF15. Brainstem-restricted receptor for GDF15 which regulates food intake, energy expenditure and body weight in response to metabolic and toxin-induced stresses. Upon interaction with its ligand, GDF15, interacts with RET and induces cellular signaling through activation of MAPK- and AKT- signaling pathways.
Form	Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Rat GFR alpha-like, His Tag at 5 μ g/mL (100 μ L/well) can bind Human

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	GDF-15, Fc Tag with a linear range of 0.1-8 ng/mL.
Molecular Mass	The protein has a calculated MW of 39.0 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Gfral GDNF family receptor alpha like [Rattus norvegicus]
Official Symbol	Gfral
Synonyms	GFRAL; GDNF family receptor alpha like; GDNF family receptor alpha-like; RGD1565220;
Gene ID	501023
mRNA Refseq	NM_001191998

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_001178927
----------------	--------------

UniProt ID	D3ZB94
------------	--------

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA