

Product Data Sheet

GFRA1/GDNFR-alpha-1 Protein, Rat (HEK293, Fc)

Cat. No.: HY-P76948

Synonyms: GFRα1; GDNF Family Receptor Alpha-1; GFR-Alpha-1; RET Ligand 1; GDNFRA; RETL1; TRNR1

Species:

Source: HEK293

Accession: Q62997 (M1-L445)

Gene ID: 25454

Molecular Weight: Approximately 85 kDa

PROPERTIES

AA Sequence	MFLATLYFAL PLLDLLMSAE VSGGDRLDCV KASDQCLKEQ SCSTKYRTLR QCVAGKETNF SLTSGLEAKD ECRSAMEALK QKSLYNCRCK RGMKKEKNCL RIYWSMYQSL QGNDLLEDSP YEPVNSRLSD IFRAVPFISD VFQQVEHISK GNNCLDAAKA CNLDDTCKKY RSAYITPCTT SMSNEVCNRR KCHKALRQFF DKVPAKHSYG MLFCSCRDIA CTERRRQTIV PVCSYEERER PNCLSLQDSC KTNYICRSRL ADFFTNCQPE SRSVSNCLKE NYADCLLAYS GLIGTVMTPN YVDSSSLSVA PWCDCSNSGN DLEDCLKFLN FFKDNTCLKN AIQAFGNGSD VTMWQPAPPV QTTTATTTTA FRVKNKPLGP AGSENEIPTH VLPPCANLQA QKLKSNVSGS THLCLSDSDF GKDGLAGASS HITTKSMAAP
Biological Activity	Immobilized rat His-GDNF (78-211) at 10 μ g/mL (100 μ l/well) can bind rat GFRA1-Fc, The EC ₅₀ of rat GFRA1-Fc is 20-46.6 ng/mL.
Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

Page 1 of 2 www. Med Chem Express. com

DESCRIPTION

Background

GFRA1/GDNFR-alpha-1 Protein serves as a receptor for GDNF and plays a crucial role in mediating the GDNF-induced autophosphorylation and activation of the RET receptor. It is proposed that two molecules of GDNFR-alpha-1 form a complex with the disulfide-linked GDNF dimer and two molecules of RET, suggesting a coordinated mechanism for signal transduction. GFRA1 interacts with RET, facilitating the intricate signaling pathways associated with GDNF-induced responses. Additionally, GFRA1 engages in interactions with SORL1, either alone or in a complex with GDNF. This interaction results in the internalization of GFRA1, without leading to its degradation, indicating a regulatory aspect of GFRA1 dynamics. These molecular interactions highlight the multifaceted role of GFRA1 in mediating GDNF signaling and emphasize its importance in cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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Page 2 of 2 www.MedChemExpress.com