

GFR Alpha-3/GFRA3 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	GDNF family receptor alpha 3;Y15110;GFR α 3;GFR α -3/GFRA3;GFRalpha3;GDNF family receptor α 3
Protein Construction:	Asn29-Arg379
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	O35118
Molecular Weight:	40.3 kDa (Predicted); 47-52 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Mouse GFRA3, His Tag at 5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Mouse ARTN, hFc Tag with the EC50 of 0.12 μ g/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

GDNF (glial-cell-line derived neurotrophic factor) is a potent neurotrophic factor for dopaminergic neurons. Neuropsychiatric diseases and their treatments are associated with alterations in the levels of both GDNF and its receptor family (GDNF family receptor alpha or GFRA). GFRA1, GFRA2 and GFRA3 are located in chromosomal regions with suggestive linkage to schizophrenia.

Reference

Widenfalk J, et al. (2000) Neurturin, RET, GFRalpha-1 and GFRalpha-2, but not GFRalpha-3, mRNA are expressed in mice gonads. Cell Tissue Res. 299(3): 409-15.

Li J, et al. (2009) Autocrine regulation of early embryonic development by the artemin-GFRA3 (GDNF family receptor-alpha 3) signaling system in mice. FEBS Lett. 583(15): 2479-85.

Yang C, et al. (2006) Distribution of GDNF family receptor alpha3 and RET in rat and human non-neural tissues. J Mol Histol. 37(1-2): 69-77.

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