GFRAL, Fc Fusion, Avi-Tag, Biotin-Labeled Recombinant

Catalog: 101013
Lot: 220505

Product Information

Description:	Recombinant human GFRAL (GDNF family receptor alpha like) encompassing amino acids 19-351(end). This protein is fused in C-terminal with the Fc fragment of human IgG1 followed by a C-terminal Avi-Tag™. The recombinant protein was enzymatically biotinylated using the Avi-Tag™ and affinity purified.
Species	Human
Construct:	GFRAL (19-351(end)-Fc(lgG1)-Avi)-(Biotin)
Concentration:	0.64 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	67 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Genbank Accession:	NM_207410.2
Label:	This protein is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation confirmed to be ≥90%.
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	An ELISA binding assay was performed with GFRAL and GDF15. GDF15 was coated onto an assay plate overnight at 4 µg/ml at 4°. On the next day, the plate was washed on blocked. Then, serial dilutions of GFRAL were added (0 to 200 nM) for 1 hour at room temperature. After washing, HRP-Streptavidin was incubated for 30 minutes at room temperature. Following another wash step, colorimetric HRP substrate was added and quenched with 1N HCL. Absorbance was measured on a plate reader at 450 nm. A neutralization binding assay was performed with Anti-GFRAL Antibody (BPS Bioscience #101351) to test its ability to inhibit the binding of GFRAL (BPS Bioscience #101013) and GDF15. GDF15 was coated onto an assay plate overnight at 4 µg/ml at 4°. On the next day, the plate was washed on blocked. Then, serial dilutions of anti-GFRAL were added (0 to 200 nM) and allowed to preincubate for 30 minutes at room temperature before 1.5 ng/µl of GFRAL was added and continued to incubate for 1 hour. After washing, HRP-Streptavidin was incubated for 30 minutes at room temperature. Following another wash step, colorimetric HRP substrate was added and quenched with 1N HCL. Absorbance was measured on a plate reader at 450 nm.
Applications:	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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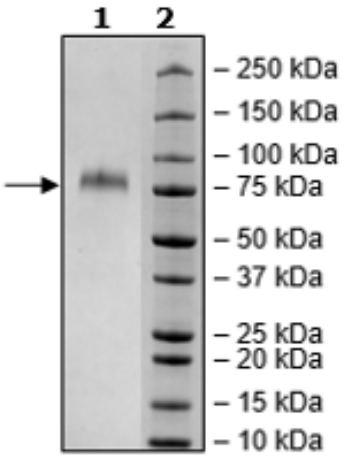
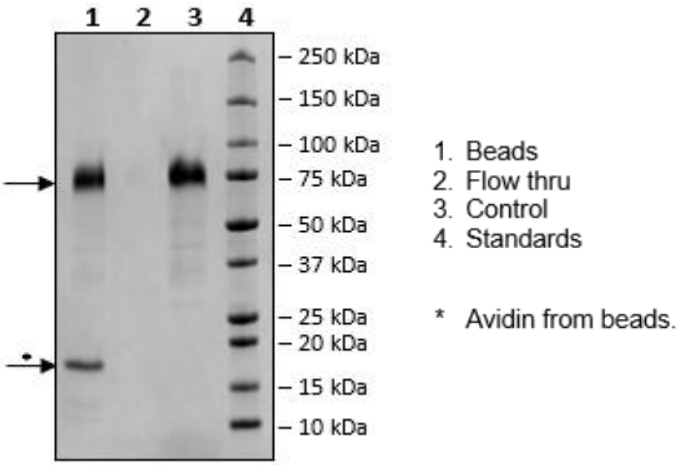
Quality Control Data

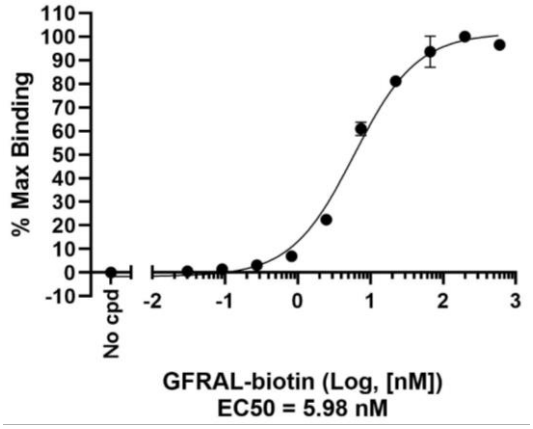
4-20% SDS-PAGE Coomassie Staining



Biotin-Avidin Pulldown



GDF15: GFRAL-Biotin Binding Assay



Anti-GFRAL Neutralization Assay