Recombinant GFRA4 protein (His tag)

Catalog Number	548200
Synonyms	GDNF receptor alpha-4; GDNFR-alpha-4; GFR-alpha-4; Persephin receptor
Species	Human
Expression System	E. coli
Accession	Q9GZZ7
Molecular Weight	Predictes a molecular mass of 13.62 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	21-131
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 21-131 aa (Q9GZZ7) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This recombinant protein product features a stable and soluble fragment (amino acids 21-131) of human GDNF family receptor alpha-4 (GFR-alpha-4), a key receptor for persephin involved in neurotrophic signaling. Ideal for structural studies and biochemical assays, this fragment has been computationally optimized for high solubility and experimental utility. GDNF family receptor alpha-4 (GFR-alpha-4) is a receptor for persephin, a neurotrophic factor that supports the survival and function of mesencephalic dopaminergic and motor neurons. It functions by binding to its coreceptor, leading to autophosphorylation and activation of the RET receptor, and is implicated in C-cell development and postnatal adrenal medulla maturation. In its full-length form, GFR-alpha4a and GFR-alpha4b isoforms are localized to the cell membrane via GPI-anchors, while the GFR-alpha4c isoform is secreted, reflecting diverse roles in cellular signaling pathways.