Recombinant NRTN protein (His tag)

Catalog Number	545773
Species	Human
Expression System	E. coli
Accession	Q99748
Molecular Weight	Predictes a molecular mass of 12.94 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	100-197
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 100-197 aa (Q99748) 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	Recombinant Human Neurturin (NRTN) Fragment (aa 100-197) is a high-purity, stable protein fragment designed for structural and biochemical research. This 98-amino acid soluble unit retains key functional characteristics, making it an ideal tool for studying neurotrophic signaling and neuronal development. Neurturin (NRTN) is a crucial growth factor that supports sympathetic neuron survival and regulates central nervous system development and maintenance. It plays essential roles in neural crest development and may influence non-neuronal cell populations such as hematopoietic cells. Neurturin functions by binding to its coreceptor GFRA2, leading to RET receptor autophosphorylation and activation, with heparan sulfate-binding being required for proper signaling. As a secreted protein, Neurturin acts through paracrine signaling mechanisms in physiological contexts. The selected fragment (aa 100-197) represents a stable, soluble region computationally optimized for research applications while maintaining relevance to the protein's biological functions.