Recombinant NDNF protein (His tag)

Catalog Number	547796
Synonyms	Neuron-derived neurotrophic factor
Species	Human
Expression System	E. coli
Accession	Q8TB73
Molecular Weight	Predictes a molecular mass of 33.88 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	287-568
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 287-568 aa (Q8TB73) 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 Protein NDNF Fragment (287-568) is a high-purity, functional protein fragment encompassing the Fibronectin type-III 2 domain. This product is an essential tool for researchers studying neurotrophic factors, neuronal migration, and endothelial cell biology, offering targeted insights into specific domain functions. Protein NDNF (Neuron-derived neurotrophic factor), encoded by the NDNF gene in Homo sapiens, is a secretory protein with critical roles in cellular processes. It acts as a chemorepellent for gonadotropin-releasing hormone (GnRH) neurons, regulating their migration to the hypothalamus, and promotes neuron migration, growth, survival, and neurite outgrowth, particularly in olfactory system development. NDNF also modulates growth factor activity and downstream signaling, regulates extracellular matrix assembly and cell adhesiveness, and supports endothelial cell survival, vessel formation, and revascularization via NOS3-dependent mechanisms. As a secreted protein, it functions extracellularly, influencing various physiological pathways.