Recombinant GDF7 protein (His tag)

Catalog Number	543007
Synonyms	GDF-7
Species	Human
Expression System	E. coli
Accession	Q7Z4P5
Molecular Weight	Predictes a molecular mass of 13.32 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	347-450
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 347-450 aa (Q7Z4P5) 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 Growth/differentiation factor 7 (GDF-7) Fragment (residues 347-450) is a high-quality protein product designed for structural and biochemical studies. This 104-amino acid fragment was computationally selected to ensure stability and solubility, making it ideal for research applications requiring reliable protein performance. Growth/differentiation factor 7 (GDF-7), encoded by the GDF7 gene in humans, is a secreted protein that may play an active role in the motor area of the primate neocortex. As a secreted factor, GDF-7 functions in extracellular environments, potentially influencing neural development and function. The recombinant fragment provided represents a stable, soluble unit optimized for experimental investigations into the protein's characteristics and interactions.