Recombinant FGF3 protein (His tag)

Catalog Number	546758
Synonyms	FGF-3; Heparin-binding growth factor 3; HBGF-3; Proto-oncogene Int-2
Species	Human
Expression System	E. coli
Accession	P11487
Molecular Weight	Predictes a molecular mass of 19.55 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	43-197
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 43-197 aa (P11487) 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	Introducing recombinant Human Fibroblast Growth Factor 3 (FGF-3) Fragment (aa 43-197), a high-quality protein product designed for structural and biochemical research. This 155-amino acid fragment represents a stable, soluble unit of FGF-3, maintaining key functional characteristics while offering enhanced experimental utility for studies in developmental biology and cellular regulation. Fibroblast Growth Factor 3 (FGF-3), also known as Heparin-binding growth factor 3 and Proto-oncogene Int-2, plays a crucial role in embryonic development, cell proliferation, and cell differentiation processes. Research has demonstrated its essential function in normal ear development, highlighting its significance in developmental biology. As a secreted protein, FGF-3 functions in extracellular signaling pathways, making it an important target for studying intercellular communication and developmental regulation. The selected fragment (aa 43-197) was computationally optimized to provide a stable, soluble protein unit ideal for investigating FGF-3's structural properties and molecular interactions.