Recombinant FGF7 protein (His tag)

Catalog Number	539842
Synonyms	FGF-7; Heparin-binding growth factor 7; HBGF-7; Keratinocyte growth factor
Species	Human
Expression System	E. coli
Accession	P21781
Molecular Weight	Predictes a molecular mass of 17.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	63-194
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 63-194 aa (P21781) 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 Fibroblast Growth Factor 7 (FGF-7) Fragment (63-194) is a high-quality, stable protein product designed for structural and biochemical studies. This 132-amino acid fragment retains key functional characteristics of the full-length protein, offering researchers a reliable tool for investigating epithelial cell proliferation, differentiation, and developmental processes. Fibroblast Growth Factor 7 (FGF-7), also known as Keratinocyte Growth Factor, is a secreted heparin-binding growth factor that plays crucial roles in embryonic development, cell proliferation, and cell differentiation. As a major paracrine effector, FGF-7 is particularly important for normal branching morphogenesis and serves as a key regulator of epithelial cell proliferation. The protein's secreted nature and specific activity on keratinocytes make it essential for understanding tissue development and regeneration processes. The selected fragment (63-194) represents a stable, soluble unit optimized for experimental applications while maintaining biological relevance.