Recombinant Human FGF18 protein (His tag)

Catalog Number:PDEH100405

Note: Centrifuge before opening to ensure complete recovery of vial contents.

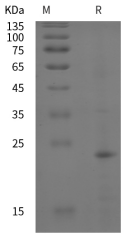
Description

Synonyms	FGFI;zFGF5
Species	Human
Expression Host	E.coli
Sequence	Val 31-Ala 207
Accession	O76093
Calculated Molecular Weight	19.4 kDa
Observed molecular weight	23 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Fibroblast Growth Factor 18 (FGF-18) is a 20 kDa protein that plays an important role in skeletal development and bone homeostasis . Mature human FGF-18 shares 99% amino acid sequence identity with mouse and rat FGF-18 . It is expressed in embryonic somites and the neural fold , adult lung , cerebellar and hippocampal neurons , hair follicle root sheath cells , and osteogenic mesenchymal cells . FGF-18 binds to FGF R2c, FGF R3c as well as the Golgi protein GLG1 and induces the proliferation of astrocytes and microglia, vascular endothelial cells, dermal fibroblasts, papilla cells, and keratinocytes . FGF-18 is required for normal skeletal development . It recruits osteoclasts and osteoblasts to the growth plate, promotes osteoclast formation and function, inhibits osteoblast differentiation, promotes skeletal vascularization, and induces chondrocyte hypertrophy and cartilage matrix formation.

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