

Recombinant Rat Fibroblast Growth Factor 18

Catalog No: #AP60249



Package Size: #AP60249-1 5ug #AP60249-2 100ug #AP60249-3 500ug

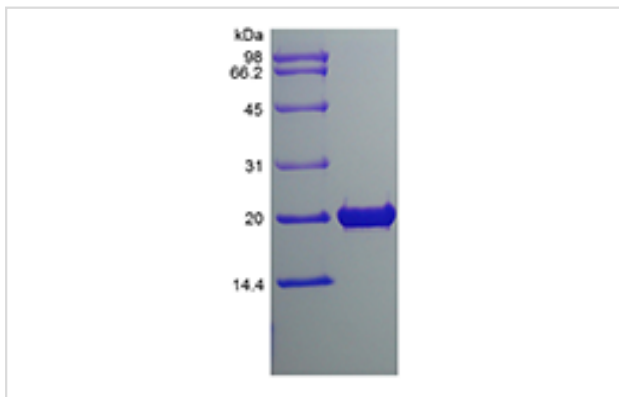
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Description

Product Name	Recombinant Rat Fibroblast Growth Factor 18
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Calculated MW	Approximately 21.0 kDa, a single non-glycosylated polypeptide chain containing 180 amino acids.
Target Sequence	EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRISARG EDGDKYAQLL VETDTFGSQV RIKGGKTEFY LCMNRKGLV GKPDGTSKEC VFIEKVLNEN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQTEHQK PFKYTTVTKR SRRIRPHTPG
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, 500 mM NaCl.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> -□ A minimum of 12 months from date of receipt, when stored at &le;-20 °C as supplied. -□ 1 month, 2 to 8 °C under sterile conditions after reconstitution. -□ 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

Rat FGF-18 is encoded by the FGF18 gene in rats. By phylogenetic analysis and gene location analysis, FGF-18 is divided into FGF-8 subfamily which has three members FGF-8, FGF-17 and FGF-18. Using FGF knockout mice model, the numbers of this subfamily were testified that have crucial roles of in embryo development. FGF-18^{-/-} mice have decreased expression of osteogenic markers and delayed long-bone ossification. FGF-18 also has significant roles in lung development and has an anabolic effect on cartilage formation. Additionally, it has been shown in vitro that this protein is able to induce neurite outgrowth in PC12 cells. Rat FGF-18 shares 98 % amino acid sequence identity with human.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.