

Fibroblast Growth Factor-18 Mouse Recombinant

Item Number	rAP-2192
Synonyms	Fibroblast growth factor 18, FGF-18, zFGF5, Fgf18, D130055P09Rik.
Description	FGF-18 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 180 amino acids and having a molecular mass of 21kDa. The FGF-18 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	O89101
Amino Acid Sequence	EENVDFRIHV ENQTRARDDV SRKQLRLYLQL YSRTSGKHIQ VLGRRISARG EDGDKYAQLL VETDTFGSQV RIKGKETEFY LCMNRKGLV GKPDGTSKEC VFIEKVLNEN YSALMSAKYS GWY- VGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQALQK PFKYTTVTKR SRRIRPTHPG.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized FGF-18 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-18 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	FGF-18 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized FGF-18 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF-receptors is 0.5ng/ml, corresponding to a specific activity of 2.0×10^6 units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**