

Fibroblast Growth Factor-8 Mouse Recombinant

Item Number	rAP-2193
Synonyms	Fibroblast growth factor 8, FGF-8, Androgen-induced growth factor, AIGF, Heparin-binding growth factor 8, HBGF-8, Fgf8.
Description	FGF-8 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 246 amino acids and having a molecular mass of 28.1kDa. The FGF-8 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P37237
Amino Acid Sequence	QVRSAAQKRG PGAGNPADTL GQGHEDRPFQ QRSRAGKNFT NPAPNYPEEG SKEQRDSVLP KVTQRHVREQ SLVTDQLSRR LIRTYQLYSR TSGKHVQVLA NKRINAMAED GDPFAKLIVE TDTFGS- RVRV RGAETGLYIC MNKKGKLIK SNGKGKDCVF TEIVLENNYT ALQNAKYEGW YMAFTRKGRP RKG- SKTRQHQ REVHFMRKRLP RGHHTTEQSL RFEFLNYPFF TRSLRGSQRT WAPEPR.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized FGF-8 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-8 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-8 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-8 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ , as determined by the dose-dependent a cell proliferation assay using NR6R-3T3 mouse fibroblast cells is 25 ng/ml in the presence of 0.1 µg/ml heprin, corresponding to a specific activity of 4.0×10^4 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**