

Keratinocyte Growth Factor Human Recombinant

Item Number	rAP-2333
Synonyms	HBGF-7, FGF7, FGF-7, KGF.
Description	Keratinocyte Growth Factor-1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 164 amino acids and having a molecular mass of 18995 Dalton. The FGF-7 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P21781
Amino Acid Sequence	MCNDMTPEQM ATNVNCSSE RHTRSVDYME GGDIRVRRLF CRTQWYLRID KRGKVKGTQE MKNNY-NIMEI RTVAVGIVAI KGVSEFYLA MNKEGKLYAK KECNEDCNFK ELILENHNT YASAKWTHNG GEMFVALNQQ GIPVRGKTK KEQKTAHFLP MAIT.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Keratinocyte Growth Factor1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF7 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	Lyophilized from a 0.22m filtered solution in 20mM PB, pH 8.0, 1M NaCl. Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Keratinocyte Growth Factor in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The biological activity was determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing KGF receptors yielding an ED ₅₀ $\leq 10\text{ng/ml}$, corresponding to a Specific Activity of 1.0×10 ⁵ IU/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**