

Keratinocyte Growth Factor-2 Human Recombinant

Item Number	rAP-2334
Synonyms	FGFA, FGF10, FGF-10, KGF-2, Fibroblast growth factor 10.
Description	Keratinocyte Growth Factor-2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 170 amino acids (40-208) and having a molecular mass of 19300 Dalton. Keratinocyte Growth Factor 2 is highly related to KGF-1(FGF-7), it binds to the same receptor as KGF-1
Uniprot Accesion Number	O15520
Amino Acid Sequence	MLGQDMVSPE ATNSSSSSFS SPSSAGRHRVY SYNHLQGDVY WRKLFSTKY FLKIEKNGKV SGTKKENCYPY SILEITSVEI GVVAVKAINS NYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNGKGAPRR GQKTRRKNTS AHFLPMVVHS.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Keratinocyte Growth Factor-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF10 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 0.2um filtered concentrated (1mg/ml) solution in PBS, pH 7.4. 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 FGF-10 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50, calculated by the dose-dependant stimulation of FGF receptors by BaF3 indicator cells (measured by 3H-thymidine uptake) is ≤ 0.5 ng/ml, corresponding to a specific activity of 2x10 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**