

Fibroblast Growth Factor-21 Rat Recombinant

Item Number	rAP-2201
Synonyms	Fibroblast growth factor 21, FGF-21.
Description	FGF 21 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 180 amino acids and having a molecular mass of 19.7kDa. The FGF 21 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	
Amino Acid Sequence	AYPISDSSPL LQFGGQVRQR YLYTDDDQDT EAHLEIREDG TVVGTahrsp ESLELkALK PGVIQILGVK ASRFLCQQPD GTLYGSPHFD PEACSFRELL LKDGYNVYQS EAHGLPLRLP QKDSQDPATR GPVRFLLPMPG LPHEPQEQPG VLPPEPPDVG SSDPLSMVEP LQGRSPSYAS
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized FGF 21 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF 21 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 0.2µm filtered concentrated solution in 1×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 21 Rat Recombinant in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 determined by a cell proliferation assay using murine NIH/3T3 cells is less than 700 ng/ml, corresponding to a specific activity of > 1.4 × 1000 IU/mg in the presence of 5µg/ml of rMuKlotho-beta.
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**