DATASHEET

Recombinant Human Fibroblast Growth Factor-20

CAT. NO. ARP6662

KEY FEATURES

Target	Fibroblast Growth Factor-20	Source/Expression System	E.coli
Reactivity	Human	Aapplication	SDS-PAGE
Abbreviation	rHuFGF-20	Synonyms	Fibroblast Growth Factor-20, FGFK

BACKGROUND

FGF-20 is a secreted, heparin-binding growth factor that is a member of the FGF family. Proteins of this family play a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-20 signals through FGFR 2c and 3c, and is expressed during limb and brain development. Human FGF-20 shows 98% aa identity to bovine FGF-20 and 95% aa identity to both rat and mouse FGF-20. Recombinant Human FGF-20 is a 23.5kDa protein containing 211 amino acid residues.

PRODUCT OVERVIEW

Molecular Weight	Approximately 23.5 kDa, a single non-glycosylated polypeptide chain containing 211 amino acids.
Accession	Q9NP95 Met1-Thr211
A.A. Sequence	MAPLAEVGGFLGGLEGLGQQVGSHFLLPPAGERPPLLGERRSAAERSARGGPGAAQLAHLHGILRRRQLYCRTGFH LQILPDGSVQGTRQDHSLFGILEFISVAVGLVSIRGVDSGLYLGMNDKGELYGSEKLTSECIFREQFEENWYNTYSSNI YKHGDTGRRYFVALNKDGTPRDGARSKRHQKFTHFLPRPVDPERVPELYKDLLMYT
Purity	＞96% by SDS-PAGE or HPLC.
Biological Activity	Fully biologically active when compared to standard. Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED50 is ≤ 5 ng/ml in the presence of 1μg/ml heparin, corresponding to a specific activity of ≥2×10^5 units/mg.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 50 mM Tris-HCL, with NaCl and Tween-20 as protectant, pH 7.6.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.01 EU/μg of rHuFGF-20 protein as determined by LAL method.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

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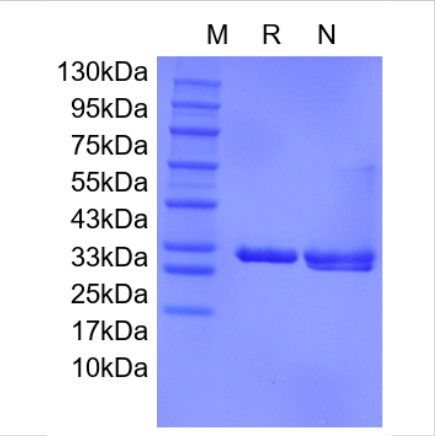
DATA



SDS-PAGE

STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.