

Recombinant Human FGF18

Cat No:HR2R1395

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	FGF18
Gene ID	8817
Accession	O76093
Alternative Name	Fibroblast Growth Factor-18, zFGF5
Species	Human
Source	E. coli
Description	Human FGF18 is a member of the FGF family, a group of related proteins having broad mitogenic and cell survival activity. Members of this family have key roles in prenatal development, as well as postnatal growth and tissue regeneration. FGF18 promotes chondrogenesis, through interaction with FGFR3. It has been demonstrated to cause an increase in cartilage in a murine osteoarthritis model. It has also been implicated in the proliferation of tissues, notably the liver and small intestine. FGF18 also signals through FGFR 1c, 2c and 4. Recombinant Human FGF18 is a 20.4 kDa heparin binding growth factor.
Functions	The bioactivity was determined in a 3T3 cell proliferation assay. The ED50 was in the range of 0.05 - 0.1 ng/ml.
Formulation	Lyophilized from a 0.2 ?m filtered solution in phosphate buffer, NaCl, KCl and EDTA (pH 7.5)
Solubility	A quick spin of the vial followed by reconstitution in sterile distilled water to a concentration not less than 0.1 mg/mL is recommended. Please note, filter sterilization is a must following reconstitution. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	20.4
Purity	>95% as determined by SDS-PAGE
Concentration	< 1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.