

Recombinant Human FGF10

Cat No:HR2R1385

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	FGF10
Gene ID	2255
Accession	O15520
Alternative Name	FGF-10, FGFA, Keratinocyte growth factor-2
Recombinant Human Fibroblast Growth Factor 10 (FGF10)
Species	Human
Source	E. coli
Description	FGF-10 is involved in the initial budding as well as the continuous outgrowth of vertebrate limbs. FGF-10 mRNA is expressed preferentially in neurons but not in glial cells and may have a distinct role in the brain. Human FGF-10 is mitogenic for fetal rat keratinizing epidermal cells but not for NIH 3T3 cells. Recombinant FGF-10 induces the proliferation of human urothelial cells in vitro and induces the proliferation of transitional epithelium. FGF-10 is secreted by cultured mouse pre- adipocytes, prevention of FGF-10 signaling inhibits subsequent differentiation. The ability of embryonic fibroblasts derived from FGF-10 knock-out mice to differentiate into adipocytes is also impaired.
Functions	The bioactivity was determined in a NIH/3T3 cell proliferation assay. The ED50 was in the range of 0.05 - 0.5 ng/ml.
Formulation	Lyophilized from 0.2 ?m filtered solution in PBS (pH 7.0) and 1mM DTT
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	19
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.