

Active Recombinant Human FGF10 Protein

Cat. No. FGF10-4097H Lot. No. (See product label)

SPECIFICATION

Product Overview Human FGF10 (O15520, 1 a.a. - 208 a.a.) full-length recombinant protein expressed in Escherichia coli.

Species Human

Source E.coli

Description The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein exhibits mitogenic activity for keratinizing epidermal cells, but essentially no activity for fibroblasts, which is similar to the biological activity of FGF7. Studies of the mouse homolog of suggested that this gene is required for embryonic epidermal morphogenesis including brain development, lung morphogenesis, and initiation of limb bud formation. This gene is also implicated to be a primary factor in the process of wound healing. [provided by RefSeq]

Form Lyophilized

Bio-activity The ED50 was determined by the dose-dependent proliferation of BaF3 cells expressing FGF receptors, and was found to be <0.5 ng/mL., corresponding to a specific activity of 2.0 x 10⁶ units/mg.

Molecular Mass 19 kDa

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AA Sequence	MWKWILTHCASAFPHLPGCCCCCFLLLFLVSSVPVTCQALGQDMVSPEATNSSSSS FSSPSSAGRHRVRSYNHLQGDVRWRKLFSTKYFLKIEKNGKVSGTKKENCYPYSILEI TSVEIGVVAVKAINSNYYLAMNKKGKLYGSKEFNNDCKLKERIEENGYNTYASFNWQ HNGRQMYVALNGKGAPRRGQKTRRKNTSAHFLPMVVHS
Endotoxin	< 0.1 ng/μg (1 EU/μg)
Purity	> 90% by SDS-PAGE and HPLC
Applications	Functional Study SDS-PAGE
Storage	Store at -20 centigrade on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4 centigrade for 1 month or store at -20 centigrade for 6 months. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	Lyophilized from PBS, pH 7.0

GENE INFORMATION

Gene Name	FGF10 fibroblast growth factor 10 [Homo sapiens]
Official Symbol	FGF10
Synonyms	FGF10; fibroblast growth factor 10; FGF-10; keratinocyte growth factor 2; produced by fibroblasts of urinary bladder lamina propria;
Gene ID	2255
mRNA Refseq	NM_004465

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Protein Refseq	NP_004456
MIM	602115
UniProt ID	O15520

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