Bioactive

FGF10 (Human) Recombinant protein

Catalog # P8863 Size 25 ug

Specification

Product Description	Human FGF10 (O15520, 40 a.a. - 208 a.a) partial recombinant protein expressed in *Escherichia Coli*.
Sequence	MLGQDMVSPE ATNSSSSSFS SPSSAGRHVR SYNHLQGDVR WRKLFSFTKY FLKIEKNGKV SGTKKENCPY SILEITSVEI GVVAVKAINS NYYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNGKGAPRR GQKTRRKNTS AHFLPMVVHS.
Host	Escherichia coli
Theoretical MW (kDa)	19.3
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 96% by SDS-PAGE. > 96% by RP-HPLC.
Activity	The ED_{50}, calculated by the dose-dependant stimulation of FGF receptors by BaF3 indicator cells (measured by 3H-thymidine uptake) is < 0.5 ng/mL, corresponding to a specific activity of 2 $x10^6$ units /mg.
Storage Buffer	Lyophilized from PBS, pH 7.4
Storage Instruction	Lyophilized although stable at room temperature for 3 weeks. should be stored desiccated below -20 °C. Upon reconstitution should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — FGF10

Entrez GeneID	2255
Protein Accession#	O15520
Gene Name	FGF10
Gene Alias	-
Gene Description	fibroblast growth factor 10
Omim ID	149730 180920 602115
Gene Ontology	Hyperlink
Gene Summary	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 lim bud formation. This gene is also implicated to be a primary factor in the process of wound healing. [provided by RefSeq
Other Designations	keratinocyte growth factor 2|produced by fibroblasts of urinary bladder lamina propria

Pathway

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Regulation of actin cytoskeleton

Disease

- Abnormalities
- Attention Deficit Disorder with Hyperactivity

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- Cleft Lip
- Cleft Palate
- Genetic Predisposition to Disease
- Hyperparathyroidism
- Hypospadias
- Tourette Syndrome

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