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Datasheet for ABIN2017799 FGF10 Protein (AA 62-209)

Overview

Quantity:	50 µg
Target:	FGF10
Protein Characteristics:	AA 62-209
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 10 ng/mL, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 1.0x 10 ⁵ units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	FGF10
Alternative Name:	Fibroblast Growth Factor-10 (FGF-10) (FGF10 Products)
Background:	Fibroblast Growth Factor-10 (FGF-10) is a mitogen mainly produced by mesenchymal stem cells in lung. FGF-10 belongs to the heparin binding FGF family, and is also known as Keratinocyte Growth Factor-2 (KGF-2). It shares homology with KGF, and both KGF and FGF-10 activate the receptor FGFR2-IIIb. However, unlike KGF, which induces the proliferation and

Target Details

differentiation of various epithelial cells, FGF-10 is an essential factor for the budding and branching morphogenesis during multi-organ development via mesenchymal-epithelial interactions. FGF-10 is crucial for lung and limb development and is regulated by Shh during early development. Recombinant mouse Fibroblast Growth Factor-10 (rmFGF-10) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 148 amino acids. A fully biologically active molecule, rmFGF-10 has a molecular mass of 17.0 kDa analyzed by reducing SDS-PAGE.

Synonyms: Fibroblast Growth Factor-10, FGFA, Keratinocyte growth factor-2

Molecular Weight: 17.0 kDa, observed by reducing SDS-PAGE.

UniProt: [O35565](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Stem Cell Maintenance](#), [Tube Formation](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant mouse Fibroblast Growth Factor-10 (rmFGF-10) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmFGF-10 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months