antibodies

Datasheet for ABIN2017802 FGF10 Protein (AA 40-208) (His tag)



Overview

Quantity:	50 µg
Target:	FGF10
Protein Characteristics:	AA 40-208
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FGF10 protein is labelled with His tag.
Product Details	
Characteristics:	ED50 < 20 ng/mL, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a
	specific activity of > 5.0x 10^4 units/mg.
	AA 40-208, expressed with N-terminal His-Tag.
Purity:	> 95 % by SDS-PAGE analysis.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.
Target Details	
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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

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	Keratinocyte Growth Factor-2 (KGF-2). It shares the homolog and receptor FGFR2-IIIb with KGF.
	However, unlike KGF which induces the proliferation and differentiation of various epithelial
	cells, FGF-10 is an essential factor for the budding and branching morphogenesis during the
	multi-organ development via the instructive mesenchymal-epithelial interactions. FGF-10 is
	crucial for lung and limb development, and is regulated by Shh during early development.
	Recombinant human Fibroblast Growth Factor-10 (rhFGF-10) with N-terminal His-tag produced
	in E. coli is a single non-glycosylated polypeptide chain containing 187 amino acids. A fully
	biologically active molecule, rhFGF-10 has a molecular mass of 21.4 kDa analyzed by reducing
	SDS-PAGE.
	Synonyms: Fibroblast Growth Factor-10, FGFA, Keratinocyte growth factor-2
Molecular Weight:	21.4 kDa, observed by reducing SDS-PAGE.
UniProt:	015520
UniProt: Pathways:	O15520 RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
UniProt: Pathways:	O15520 RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Stem Cell Maintenance, Tube Formation, Positive Regulation of Response
UniProt: Pathways:	O15520 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 human Fibroblast Growth Factor-10 (rhFGF-10) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-10 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months