Datasheet for ABIN2017827

FGF6 Protein (AA 41-208)

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Overview

Quantity:	50 µg
Target:	FGF6
Protein Characteristics:	AA 41-208
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 2.5 ng/mL, measured by a cell proliferation assay using 3T3 cells in the presence 1 xg/mL heparin, corresponding to a specific activity of > 4x 10^5 units/mg. AA 41-208, expressed with an N-terminal Met.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	FGF6
Alternative Name:	Fibroblast Growth Factor-6 (FGF-6) (FGF6 Products)
Background:	Fibroblast Growth Factor-6 (FGF-6) is a cytokine belonging to the heparin-binding FGF family, and is structurally related to other members of FGF family, particularly FGF-4. In vivo, FGF-6 exhibits an expression profile predominantly restricted tothe myogenic lineage, and it

Target Details

	preferentially binds to two of the FGF receptors: FGFR1 and FGFR4. FGF-6 functions in muscle regeneration, myoblast proliferation and migration, and muscle differentiation in a dose-dependent manner. In vivo high concentration of recombinant FGF-6 up-regulates and down-regulates FGFR1 and FGFR4, respectively, as FGFR1 promotes the proliferation while FGFR4 promotes the differentiation in the muscle. Besides its dual function in muscle regeneration, FGF-6 may act as a regulator of bone metabolism as well.Recombinant human Fibroblast Growth Factor-6 (rhFGF-6) produced in E. coli is a single non-glycosylated polypeptide chain containing 169 amino acids. A fully biologically active molecule, rhFGF-6 has a molecular mass of 18.8 kDa analyzed by reducing SDS-PAGE. Synonyms: Fibroblast Growth Factor-6, HBGF-6, HST-2
Molecular Weight:	18.8 kDa, observed by reducing SDS-PAGE.
UniProt:	P10767
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

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-6 (rhFGF-6) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-6 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months