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Datasheet for ABIN2017823 FGF4 Protein (AA 31-206)

Overview

Quantity:	100 µg
Target:	FGF4
Protein Characteristics:	AA 31-206
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50<0.5 ng/mL, measured in a cell proliferation assay using 3T3 cells, corresponding to a specific activity of $>2.0 \times 10^6$ units/mg AA 31-206, expressed with an N-terminal Met.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	FGF4
Alternative Name:	Fibroblast Growth Factor-4 (FGF-4) (FGF4 Products)
Background:	Fibroblast Growth Factor-4 (FGF-4) also known as K-FGF is a heparin-binding growth factor of the FGF family. It was identified by its oncogenic transforming activity. FGF-4 and FGF-3 are located closely on chromosome 11. FGF-4 and its receptors (FGF R1c, 2c, 3c and 4) play an

Target Details

important role in the regulation of embryonic development, cell proliferation, and cell differentiation. FGF-4 is required for normal limb and cardiac valve development during embryogenesis. Recombinant human Fibroblast Growth Factor-4 (rhFGF-4) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 177 amino acids. A fully biologically active molecule obtained by proprietary chromatographic techniques, rhFGF-4 has a molecular mass of 19.4 kDa as analyzed by reducing SDS-PAGE.

Synonyms: HBGF-4, HST, HST-1, HSTF1, K-FGF, KFGF.

Molecular Weight: 19.4kDa, observed by reducing SDS-PAGE.

UniProt: [P08620](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Stem Cell Maintenance](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against 50 mM HEPES, 750 mM NaCl, pH 7.5.

Storage: -80 °C

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

Expiry Date: 6 months