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Datasheet for ABIN2667400 **FGF10 Protein (AA 40-208, N-Term)**

Overview

Quantity:	25 µg
Target:	FGF10
Protein Characteristics:	AA 40-208, N-Term
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)

Product Details

Purity:	>95 % , as determined by Coomassie stained SDS-PAGE gel and HPLC analysis.
Endotoxin Level:	Less than 0.1 ng per µg of protein.

Target Details

Target:	FGF10
Alternative Name:	FGF-10 (FGF10 Products)
Background:	FGF-10, also named keratinocyte growth factor 2 (KGF-2), is a member of the fibroblast growth factor (FGF) family and is functionally similar to the other FGF family member FGF-7. FGF-10 acts as a paracrine growth factor and plays an important role in embryonic development, cell growth, and cell differentiation. During embryonic stages, FGF-10 is essential for lung development, promoting lung morphogenesis, branching, and airway extension. FGF-10 was

Target Details

revealed to participate in wound healing, promoting growth of epithelial cells in normal and wounded tissue. Increased expression of FGF-10 and the receptor FGFR2-IIIb has been reported to associate with various malignant diseases, such as prostate, breast, pancreas, and colorectum cancer, suggesting the role of FGF-10 in carcinogenesis.

Molecular Weight: The 170 amino acid recombinant protein has a predicted molecular mass of approximately 19.3 kDa. The predicted N-terminal amino acid is Met.

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

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Biological activity: ED50 \leq 0.5 ng/ml, corresponding to a specific activity of $\geq 2.0 \times 10^6$ units/mg, as measured by its ability to stimulate thymidine uptake by BaF3 cells expressing FGF receptors in a dose dependent manner.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: For maximum results, quick spin vial prior to opening. Reconstitute in 5 mM sodium phosphate, pH 8.0 to a concentration of <0.5 mg/mL. It is recommended to further dilute in a buffer, such as 5 % Trehalose, and store working aliquots at -20 °C to -80 °C.

Buffer: Lyophilized, carrier-free.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: Unopened vial can be stored at -20°C or -70°C.