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Datasheet for ABIN2667402  
**FGF8 Protein (AA 23-215, N-Term)**

### Overview

Quantity:	25 µg
Target:	FGF8
Protein Characteristics:	AA 23-215, N-Term
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)

### Product Details

Purity:	>97 % , 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:	FGF8
Alternative Name:	FGF-8 ( <a href="#">FGF8 Products</a> )
Background:	FGF-8 belongs to the fibroblast growth factor (FGF) family and plays an important role in cell growth, embryogenesis, and tumorigenesis. Four isoforms (a, b, e, and f) of human FGF-8 generated by alternative splicing of the mRNA have been described. The isoforms may have different functions during embryogenesis. During prenatal stages, FGF-8 is required for the normal development of various organs, including limbs and central nervous system. FGF-8 was

## Target Details

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first cloned from SC-3 mouse mammary carcinoma cells and was found to be induced in response to androgenic stimuli. FGF-8 is found to have a transforming capacity and is detected in human prostate and breast carcinoma specimens and cell lines. The isoform FGF-8b has the highest affinity to FGF receptors and the strongest transforming capacity.

**Molecular Weight:** The 194 amino acid recombinant protein has a predicted molecular mass of approximately 22.5 kDa. The predicted N-terminal amino acid is Met.

**Pathways:** [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Dopaminergic Neurogenesis](#)

## Application Details

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

**Comment:** Biological activity: ED50 = 2.0 - 4.0 ng/ml, corresponding to a specific activity of 2.5 - 5.0 x 10<sup>5</sup> units/mg, as measured by its ability to stimulate proliferation of BALB/c 3T3 cells in a dose dependent manner.

**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** For maximum results, quick spin vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/mL. Do not vortex. 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.