

Datasheet for ABIN2017830
FGF8 Protein (AA 23-215)

3 Images

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Overview

Quantity:	50 µg
Target:	FGF8
Protein Characteristics:	AA 23-215
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 5.0 ng/mL, measured by a cell proliferation assay using 3T3 cells in the presence of 1 µg/mL of heparin, corresponding to a specific activity of > 2.0x 10 ⁵ units/mg. AA 23-215, 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:	FGF8
Alternative Name:	Fibroblast Growth Factor-8 (FGF-8) (FGF8 Products)
Background:	Fibroblast Growth Factor-8 (FGF-8) is a heparin-binding growth factor of the FGF family. There are 4 known forms of FGF8 produced by alternative splicing: FGF8a, FGF-8b, FGF-8e and FGF-8f. The human and mouse FGF8b are identical of aa sequences. FGF-8 plays an important role

Target Details

in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. FGF-8 is required for normal brain, eye, ear and limb development during embryogenesis. It is also required for normal development of the gonadotropin- releasing hormone (GnRH) neuronal system. Recombinant human Fibroblast Growth Factor-8 (rhFGF-8) produced in E. coli is a single non-glycosylated polypeptide chain containing 194 amino acids. A fully biologically active molecule, rhFGF-8 has a molecular mass of 22.5 kDa analyzed by reducing SDS-PAGE.

Synonyms: FGF-8b, AIGF, HBGF

Molecular Weight: 22.5kDa, observed by reducing SDS-PAGE.

UniProt: [P55075](#)

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

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

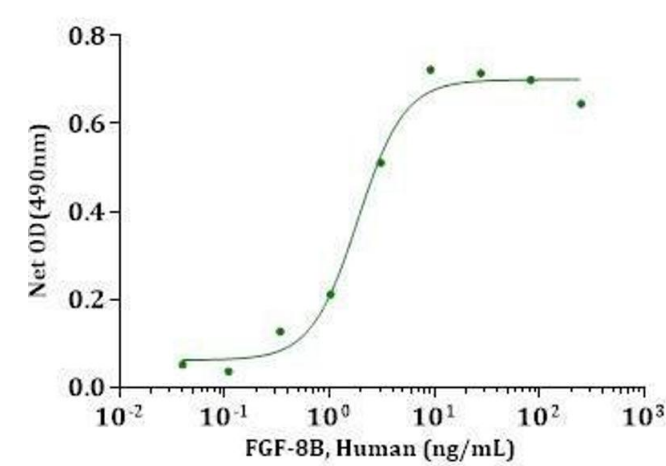
Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Fibroblast Growth Factor-8 (rhFGF-8) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-8 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months



Activity Assay

Image 1. FGF-8B, Human stimulates cell proliferation of Balb/3T3 cells. The ED50 for this effect is less than 5ng/mL (1.8ng/mL)

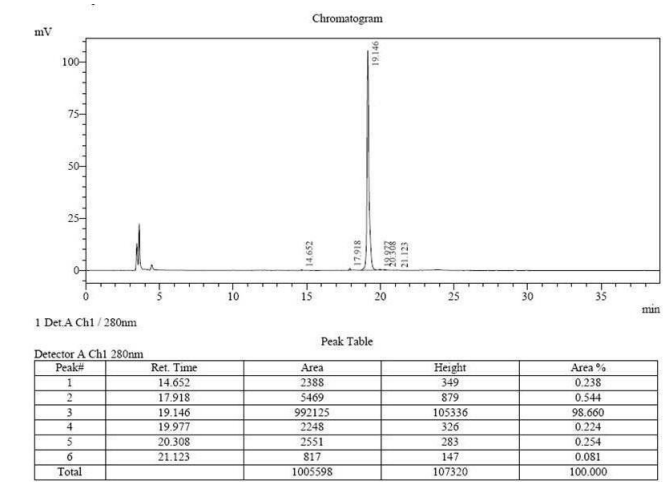
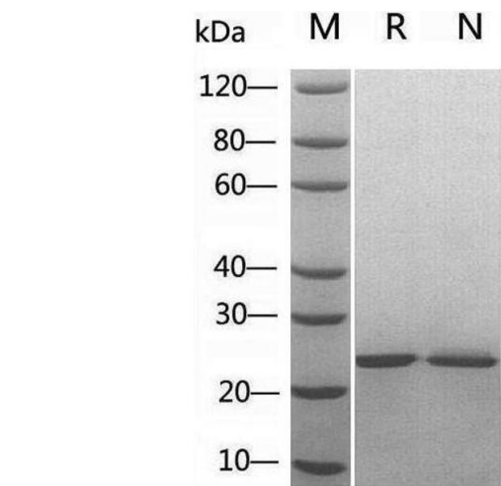


Image 2.



SDS-PAGE

Image 3. 2 µg of FGF-8B, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.