Datasheet for ABIN2017793

# FGF8 Protein (AA 23-204, Isoform A)

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## Overview

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| Quantity: | 50 µg |
| Target: | FGF8 |
| Protein Characteristics: | AA 23-204, Isoform A |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Biological Activity: | Active |

## Product Details

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| Characteristics: | ED50 < 500 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 > 2x 10^3 units/mg.<br>AA 23-204 (isoform a), expressed with an N-terminal Met. |
| Purity: | > 95 % by SDS-PAGE analysis. |
| Endotoxin Level: | < 0.2 EU/µg, determined by LAL method. |

## Target Details

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| Target: | FGF8 |
| Abstract: | FGF8 Products |
| Background: | Fibroblast Growth Factor 8a (FGF-8a) is a cytokine belonging to the heparin-binding FGF family, which has at least 23 members. FGF-8 has 8 different isoforms, named FGF-8a through FGF-8h. Different FGF-8 isoforms have different affinities to the receptors, and thus participate in |

## Target Details

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| | different signaling cascade pathways. FGF-8 has very widespread expression during embryonic development, and is an organizer and inducer for gastrulation, somitogenesis, morphogenesis, and limb induction. However, FGF-8 is also a potential oncogene: in normal adult cells, FGF-8 has very low expression, but FGF-8 is highly expressed in cancer cells of breast, prostate, and ovarian tumors. FGF-8 promotes tumor angiogenesis by increasing neovascularization, and induces osteoblastic differentiation. Recombinant human Fibroblast Growth Factor 8a (rhFGF-8a) produced inE. coli is a single non-glycosylated polypeptide chain containing 183 amino acids. A fully biologically active molecule, rhFGF-8a has a molecular mass of 21.3 kDa analyzed by reducing SDS-PAGE.<br>Synonyms: AIGFa, HBGF-8a |
| Molecular Weight: | 21.3 kDa, 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

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| Restrictions: | For Research Use only |

## Handling

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| 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 8a (rhFGF-8a) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-8a remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C. |
| Expiry Date: | 6 months |