Datasheet for ABIN2017805

# FGF12 Protein (AA 1-181, Isoform 2)

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## Overview

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| Quantity: | 50 µg |
| Target: | FGF12 |
| Protein Characteristics: | Isoform 2, AA 1-181 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Biological Activity: | Active |

## Product Details

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| Characteristics: | ED50 < 20 ng/mL, measured by its binding ability in a functional ELISA with immobilized rhFGF R4/Fc Chimera, corresponding to a specific activity of > 5x10^4 units/mg. |
| Purity: | > 95 % as analyzed by SDS-PAGE and HPLC. |
| Endotoxin Level: | < 0.2 EU/µg, determined by LAL method. |

## Target Details

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| Target: | FGF12 |
| Alternative Name: | Fibroblast Growth Factor-12(FGF-12) (FGF12 Products) |
| Background: | Fibroblast Growth Factor-12(FGF-12) is a heparin binding cytokine belonging to the FGF family. FGF-12 along with FGF-11, -13, and -14, form a sublineage within the FGF family: in contrast to the other members, they are all intracellular signaling proteins lacking signal peptides and containing a flanking domain beside the family conserved beta-trefoil domain. FGF-12 is |

## Target Details

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| | expressed in the cartilaginous skeleton and heart, suggesting a role in the development of connective tissue and heart. In vivo, FGF-12 binds to Islet Brain-2 and Voltage-Gated Sodium Channels (VGSC), and plays a critical role in the membrane targeting and function of VGSC. FGF-12 has been implicated in heart diseases such as cardiac arrhythmias.Recombinant human Fibroblast Growth Factor-12 (rhFGF-12) produced in E. coli is a single non-glycosylated polypeptide chain containing 181 amino acids. A fully biologically active molecule, rhFGF-12 has a molecular mass of 20.4 kDa analyzed by reducing SDS-PAGE.<br>Synonyms: FHF1, FGF12B |
| Molecular Weight: | 20.4 kDa, observed by reducing SDS-PAGE. |
| UniProt: | P61328 |
| Pathways: | Negative Regulation of Transporter Activity |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Reconstituted in ddH2O or PBS at 100 µg/mL. |
| Buffer: | Lyophilized after extensive dialysis against PBS. |
| Storage: | -80 °C |
| Storage Comment: | Lyophilized recombinant human Fibroblast Growth Factor-12 (rhFGF-12) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-12 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C. |
| Expiry Date: | 6 months |