

## Active Recombinant Human EFNB1 protein, hFc&His-tagged

**Cat. No.** EFNB1-1259H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human EFNB1 protein(NP_004420.1)(Met 1-Gly 232) was expressed in HEK293, fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 1-232 aa                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.                                                                                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA. Immobilized mouse EphB3 at 2 µg/ml (100 µl/well) can bind human EFNB1 Fc chimera with a linear ranger of 1.56-25 ng/ml.                                                                                                                                   |
| <b>Molecular Mass</b>   | The recombinant human EFNB1/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 458 amino acids and predicts a molecular mass of 51.2 KDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of the protein is apximately 64 and 36 KDa due to glycosylation. |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | > (79.7+18.0) % as determined by SDS-PAGE                                                                                                                                                                                                                                                                        |

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|                               |                                                                                                                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                | Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.                                                                       |
| <b>Reconstitution</b>         | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                              |
| <b>protein Refseq-Weblink</b> | <a href="http://www.ncbi.nlm.nih.gov/protein/NP_004420.1">http://www.ncbi.nlm.nih.gov/protein/NP_004420.1</a>                                                                                                                                              |
| <b>Unit ID</b>                | P98172                                                                                                                                                                                                                                                     |
| <b>Unit ID-Weblink</b>        | <a href="http://www.uniprot.org/uniprot/P98172">http://www.uniprot.org/uniprot/P98172</a>                                                                                                                                                                  |
| <b>GENE INFORMATION</b>       |                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>              | EFNB1 ephrin-B1 [ Homo sapiens ]                                                                                                                                                                                                                           |
| <b>Official Symbol</b>        | EFNB1                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>               | EFNB1; ephrin-B1; CFNS, craniofrontonasal syndrome (craniofrontonasal dysplasia) , EPLG2; Elk L; LERK2; EFL-3; LERK-2; ELK ligand; ligand of eph-related kinase 2; eph-related receptor tyrosine kinase ligand 2; CFND; CFNS; EFL3; EPLG2; Elk-L; MGC8782; |
| <b>Gene ID</b>                | 1947                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>            | NM_004429                                                                                                                                                                                                                                                  |
| <b>protein Refseq</b>         | NP_004420                                                                                                                                                                                                                                                  |

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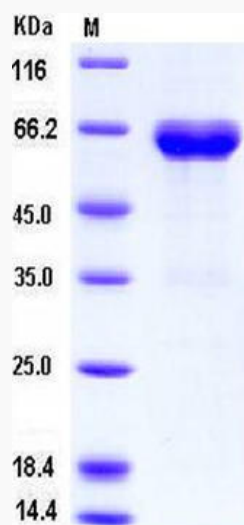
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SDS-PAGE



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