

## Active Recombinant Mouse EFNB2 Protein, Fc-tagged

**Cat. No.** EFNB2-882M    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant mouse EFNB2 (NP_034241.2) extracellular domain (Met 1-Ala 232) was expressed with the fused Fc region of human IgG1 at the C-terminus.                                                                                                                                                            |
| <b>Species</b>              | Mouse                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>        | 1-232 a.a.                                                                                                                                                                                                                                                                                                    |
| <b>Predicted N Terminal</b> | Arg 29                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>         | Measured by its binding ability in a functional ELISA. Immobilized mouse EphB4 at 2 µg/ml (100 µl/well) can bind mouse EphrinB2 Fc with a linear range of 0.2-25 ng/ml.                                                                                                                                       |
| <b>Molecular Mass</b>       | The recombinant mouse EFNB2/Fc is a disulfide-linked homodimer. The reduced monomer comprises 445 amino acids and has a predicted molecular mass of 49 kDa. As a result of glycosylation, the apparent molecular mass of rmEFNB2/Fc monomer is approximately 55-60 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                                                               |
| <b>Purity</b>               | >95 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                              |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                      |
| <b>Storage</b>          | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted 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 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                |
| <b>Gene Name</b>        | <a href="#">Efnb2 ephrin B2 [ Mus musculus ]</a>                                                                                                                               |
| <b>Official Symbol</b>  | <a href="#">EFNB2</a>                                                                                                                                                          |
| <b>Synonyms</b>         | EFNB2; ephrin B2; ephrin-B2; HTK ligand; EPH-related receptor tyrosine kinase ligand 5; Epl5; ELF-2; Eplg5; Htk-L; Lerk5; LERK-5; NLERK-1;                                     |
| <b>Gene ID</b>          | <a href="#">13642</a>                                                                                                                                                          |
| <b>mRNA Refseq</b>      | <a href="#">NM_010111</a>                                                                                                                                                      |
| <b>Protein Refseq</b>   | <a href="#">NP_034241</a>                                                                                                                                                      |
| <b>MIM</b>              |                                                                                                                                                                                |
| <b>UniProt ID</b>       |                                                                                                                                                                                |
| <b>Pathway</b>          | Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem;                                                                                                |
| <b>Function</b>         | ephrin receptor binding; protein binding; receptor binding;                                                                                                                    |

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