

## 32-8000: Recombinant Mouse Ephrin-B2/EFNB2 (C-Fc-6His)(Discontinued)

**Gene :** Efnb2  
**Gene ID :** 13642  
**Uniprot ID :** P52800

### Description

Source: Human Cells.  
MW :49.6kD.

Recombinant Mouse Ephrin-B2 is produced by our Mammalian expression system and the target gene encoding Arg29-Glu227 is expressed with a Fc, 6His tag at the C-terminus. Ephrin-B2 is a single-pass type I membrane protein and it contains 1 ephrin RBD (ephrin receptor-binding) domain. Ephrin-B2 belongs to the ephrin (EPH) family and it is cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. The ephrins and EPH-related receptors contain the largest subfamily of receptor protein-tyrosine kinases and have been associated with mediating developmental events, particularly in the nervous system and in erythropoiesis. Based upon their structures and sequence relationships, ephrins are allocated into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. It also binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4 and together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration.

### Product Info

**Amount :** 6His) / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS,pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** RSIVLEPIYWSSNSKFLPGQGLVLYPQIGDKLDIICPKVDSKTVGQYEYKQVYMVDKQADRCTIKKENTPLLNC  
ARPDQDVKFTIKFQEFSPNLWGLEFQKNKDYIISTSNGLSLEGLDNQEGGVCQTRAMKILMKVGQDASSAGSA  
RNHGPTRRPELEAGTNGRSSTTSPFVKPNPGSSTDGNSAGHSGNLLGSEVDDIEGRMDEPKSCDKTHTCPP  
CPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRV  
VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDI  
AVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGKHH  
HHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.