

EFNB1

Recombinant Human Ephrin-B1

Catalog No.	CRE112A	Quantity:	2 µg
	CRE112B		5 µg
	CRE112C		10 µg

Alternate Names: CFND, CFNS, EFL3, EPLG2, Elk-L, LERK2, EFNB1

Description: Recombinant Human Ephrin-B1 is comprised of aa 136-247 of the full length protein and is purified by proprietary chromatographic techniques.

Ephrin-B1 is a type I membrane protein and a ligand of Eph-related receptor tyrosine kinases. Ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases. Based upon their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are attached to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. Class A ephrins are linked to the membrane by a GPI linkage and bind primarily to EphA receptors; Class B ephrins contain a membrane-spanning region and bind primarily to EphB receptors. Ephrin-B1 binds to the receptor tyrosine kinases ephb1 and epha1.

Both ephrins and Eph receptors are largely expressed throughout the ectoderm, mesoderm, and endoderm of vertebrate embryos.

Ephrin-B1 may play a role in cell adhesion and function in the development or maintenance of the nervous system. It binds to and induces the collapse of commissural axons/growth cones in vitro. Ephrin-B1 may play a role in constraining the orientation of longitudinally projecting axons (by similarity).

Defects in the *efnb1* gene are a cause of craniofrontonasal syndrome (CFNS), also known as craniofrontonasal dysplasia (CFND).

GeneID: 1947

Source: *E. coli*

Molecular Weight: 47 kDa by SDS-PAGE

Formulation: Sterile filtered clear solution of 50mM Tris-acetate Buffer, pH 7.5, + 20% Glycerol, + 1 mM EDTA

Endotoxin Level: < 0.1 ng/µg of protein.

Applications: ELISA, Western blot, Inhibition Assays

Storage & Stability: Store product at -80°C. Stable for 12 months. For multiple use, aliquot and freeze at -80°C. **Avoid repeated freeze-thaw cycles.**

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