

EFNB1

Recombinant Human Ephrin-B1 His

Catalog No.	CRE112A CRE112B CRE112C	Quantity:	5 µg 20 µg 1 mg
Alternate Names:	ephrin-B1, LERK2, EPLG2, Elk-L, EPH-related receptor tyrosine kinase ligand 2, EFL-3, ELK ligand, CFND, CFNS, Craniofrontonasal Syndrome (craniofrontonasal dysplasia)		
Description:	<p>Recombinant Human Ephrin-B1 is comprised of aa 136-247 of the full length protein and is purified by proprietary chromatographic techniques.</p> <p>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.</p> <p>Both ephrins and Eph receptors are largely expressed throughout the ectoderm, mesoderm, and endoderm of vertebrate embryos.</p> <p>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).</p> <p>Defects in the efnb1 gene are a cause of craniofrontonasal syndrome (CFNS), also known as craniofrontonasal dysplasia (CFND).</p>		
GenelD:	1947		
Source:	<i>E. coli</i>		
Molecular Weight:	47 kDa by SDS-PAGE		
Formulation:	Sterile filtered clear solution of 20 mM Tris-HCl buffer (pH 8.0) + 0.4 M Urea and 5% glycerol.		
Purity:	Greater than 95% as determined by SDS-PAGE.		
Amino Acid Sequence:	MGSSHHHHHH SSGLVPRGSH MLAKNLEPVS WSSLNPKFLS GKGLVIYPKI GDKLDIICPR AEAGRPY EYY KLYLVRPEQA AACSTVLDPN VLVTCNRPEQ EIRFTIKFQE FSPNYMGLEF KKHHDYYITS TSNGSLEGLE NREGGVCRT TMKIIMKVGQ DPNAVTPPEQL TTSRPSKEAD NTVKMATQAP GSRGSLGDSD GKHETVNQEE KSGPGASGGS SGDPDGGFFNS K		
Applications:	ELISA, Western blot, Inhibition Assays		
Storage & Stability:	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.		

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