Recombinant Human EFNB3

Cat. No. EFNB3-1612H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EFNB3 was expressed in NSO Cells.
Species	Human
Source	Mammalian Cells
Description	EFNB3, a member of the ephrin gene family, is important in brain development as well as in its maintenance. Moreover, since levels of EFNB3 expression were particularly high in several forebrain subregions compared to other brain subregions, it may play a pivotal role in forebrain function. The EPH and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, particularly in the nervous system. EPH Receptors typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin ligands and receptors have been named by the Eph Nomenclature Committee (1997). Based on their structures and sequence relationships, ephrins are divided 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. The Eph family of receptors are similarly divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands.
Form	Lyophilized. This recombinant protein was 0.2 μm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium,

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	magnesium, or preservatives.
Molecular Mass	The predicted molecular weight of Recombinant Human Ephrin-B3 is Mr 49.2 kDa (monomer). However, the actual molecular weight as observed by migration on SDS Page is Mr 58 kDa.
AA Sequence	lsl epvywnsank rfqaeggyvl ypqigdrldl lcprarppgp hsspnyefyk lylvggaqgr rceappapnl lltcdrpdld lrftikfqey spnlwghefr shhdyyiiat sdgtregles lqggvcltrg mkvllrvgqs prggavprkp vsempmerdr gaahslepgk enlpgdptsn atsrgaegpl pppsiegrmd pkscdkthtc ppcpapellg gpsvflfppk pkdtlmisrt pevtcvvvdv shedpevkfn wyvdgvevhn aktkpreeqy nstyrvvsvl tvlhqdwlng keykckvsnk alpapiekti skakgqprep qvytlppsrd eltknqvslt clvkgfypsd iavewesngq pennykttpp vldsdgsffl yskltvdksr wqqgnvfscs vmhealhnhy tqkslslspg khhhhhh
Endotoxin	<0.1 EU/μg as determined by the LAL method
Purity	>95% by SDS-PAGE and analyzed by silver stain.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	EFNB3 ephrin-B3 [Homo sapiens]
Official Symbol	EFNB3
Synonyms	EFNB3; ephrin-B3; EFL6; EPLG8; LERK8; Ephrin B3 ; eph-related receptor tyrosine kinase ligand 8; LERK-8; EPH-related receptor transmembrane ligand ELK-L3

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Gene ID	1949
mRNA Refseq	NM_001406
Protein Refseq	NP_001397
MIM	602297
UniProt ID	Q15768
Chromosome Location	17p13.1
Pathway	Axon guidance; EPHB forward signaling
Function	ephrin receptor binding; transmembrane-ephrin receptor activity

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