Product Data Sheet

Product Name:	EFNB1 Human, Sf9
Cat. No.:	GP23371
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ephrin B1; ELK Ligand; Ephrin-B1; Elk-L; EPLG2; LERK2; EFL3; Craniofrontonasal Syndrome (Craniofrontonasal Dysplasia); Eph-Related Receptor Tyrosine Kinase Ligand 2; EPH-Related Receptor Tyrosine Kinase Ligand 2; LERK-2; EFL-3; CFND; EFB1; CFNS; ELK ligand; ELK-L; EPH-related receptor tyrosine kinase ligand 2.		
Amino Acid Sequence	ADPLAKNLEP VSWSSLNPKF LSGKGLVIYP KIGDKLDIIC PRAEAGRPYE YYKLYLVRPE QAAACSTVLD PNVLVTCNRP EQEIRFTIKF QEFSPNYMGL EFKKHHDYYI TSTSNGSLEG LENREGGVCR TRTMKIIMKV GQDPNAVTPE QLTTSRPSKE ADNTVKMATQ APGSRGSLGDSDGKHETVNQ EEKSGPGASG GSSGDPDGFF NSKLEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKNQVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH.		
Formulation	EFNB1 protein solution (1mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).		

Introduction

EFNB1 is a member of the Eph family. The cell-surface proteins Ephrins split into two groups, ephrin-A and ephrin-B, based on their structure and function and perform as ligands for Eph receptors. The transmembrane EFNB1 proteins have conserved cytoplasmic tyrosine residues that are phosphorylated upon interaction with an EphB receptor. In addition, EFNB1 transduces outside-in signals by C-terminal protein interfaces which influence integrin-mediated cell attachment and migration.

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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.

Background

EFNB1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 452 amino acids (28-237a.a.) and having a molecular mass of 50.3kDa. (Molecular size on SDS-PAGE will appear at approximately 50-70kDa).EFNB1 is expressed with a 242 amino acid hIgG-His-tag at C-Terminus and purified by proprietary chromatographic techniques.

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