
Product Data Sheet

Product Name: EFNB3 Human, Sf9

Cat. No.: GP23375

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ephrin B3; EPH-Related Receptor Transmembrane Ligand ELK-L3; Ephrin-B3; EPLG8; LERK8; Eph-Related Receptor Tyrosine Kinase Ligand 8; EPH-Related Receptor Tyrosine Kinase Ligand 8; LERK-8; EFL6; Ephrin-B3; EPH-related receptor transmembrane ligand ELK-L3; EPH-related receptor tyrosine kinase ligand 8; LERK-8.		
Amino Acid Sequence	ADPLSLEPVYWNSANKRFQA EGGYVLYPQI GDRLDLLCPR ARPPGPHSSP NYEFYKLYLV GGAQGRRCEA PPAPNLLLTCDRDLDRFT IKFQEYSPNL WGHEFRSHHD YYIATSDGT REGLESQGG VCLTRGMKVL LRVGQSPRGGAVPRKPVSEM PMERDRGAAH SLEPGKENLPGDPTSNATSR GAEGPLPPPS MPHHHHHH.		
Formulation	EFNB3protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10%glycerol.		

Introduction

Ephrin-B3 (EFNB3) which belongs to the ephrin gene family is essential in brain development as well as in its maintenance. EFNB3 binds to, and induces the collapse of, commissural axons/growth cones in vitro. EFNB3 loosely binds Eph receptors located on bordering cells, leading to contact-dependent bidirectional signaling into neighboring cells. The EPH and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and are implicated in mediating developmental events, mostly in the nervous system.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

EFNB3 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 208 amino acids (28-226 a.a.) and having a molecular mass of 23.0 kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40 kDa). EFNB3 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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