Recombinant Human Ephrin-A5

Cat. No. EFNA5-1611H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	Mammalian Cells
Description	Ephrin-A5, also known as EFNA5, is a member of the ephrin gene family that prevents axon bundling in cocultures of cortical neurons with astrocytes, a model of late stage nervous system development and differentiation. 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. 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. Ephrin-A5 is required for the proper guidance and mapping of retinal axons in the mammalian midbrain.
Molecular Weight	The predicted molecular weight of Recombinant Human Ephrin-A5 is 48.6 kDa. However, the actual molecular weight as observed by migration on SDS Page is 50-55 kDa.

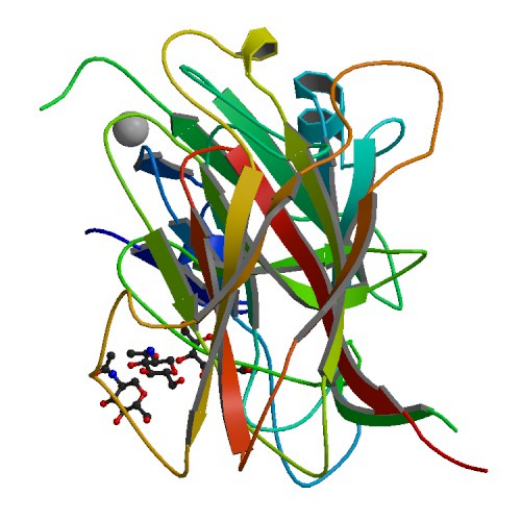
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State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/μg as determined by the LAL method.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20℃ to -70℃. After aseptic reconstitution, this protein may be stored at 2℃ to 8℃ for one month or at -20℃ to -70℃ in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	EFNA5 ephrin-A5 [Homo sapiens]
Synonyms	EFNA5; ephrin-A5; AF1; EFL5; RAGS; EPLG7; GLC1M; LERK7 ; eph-related receptor tyrosine kinase ligand 7; LERK-7; AL-1; LERK-7; ephrin-A5
Gene ID	1946
mRNA Refseq	NM_001962
Protein Refseq	NP_001953
MIM	601535
UniProt ID	P52803
Chromosome Location	5q21

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Pathway	Axon guidance
Function	ephrin receptor binding
PDB rendering based on 1shw.	

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