

Recombinant Mouse Ephrin A1, Fc-His

Cat. No. Efna1-1730M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Efna1 was expressed in <i>NSO cells</i> . The extracellular domain of mouse Ephrin-A1 (amino acids 1-182) was fused to the carboxy-terminal 6X his-tagged Fc region of human IgG1 via a polypeptide linker (IEGRMD).
Species	Mouse
Source	Mammalian Cells
Protein Length	1-182 a.a.
Description	This gene encodes a member of the ephrin (EPH) family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. 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. This gene encodes an EFNA class ephrin which binds to the EPHA2, EPHA4, EPHA5, EPHA6, and EPHA7 receptors. Two transcript variants that encode different isoforms were identified through sequence analysis.
Molecular Weight	The predicted molecular weight of Recombinant Mouse Ephrin-A1 is Mr 46.8 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 50-55 kDa.

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State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Formulation	The protein was 0.2 µ filtered and lyophilized from PBS.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Mouse Ephrin-A1 was determined its ability to bind in a functional ELISA. Immobilized rmEphA2/Fc Chimera at 2 µg/ml (100 µl/well) can bind rmEphrinA1/Fc Chimera with a linear range of 0.16 - 10 ng/ml.
Storage And Stability	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. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Efna1 ephrin A1 [Mus musculus]
Synonyms	Efna1; ephrin A1; B61; Efl1; Epl1; Eplg1; Lerk1; AI325262; immediate early response protein B61; EPH-related receptor tyrosine kinase ligand 1
Gene ID	13636
mRNA Refseq	NM_001162425
Protein Refseq	NP_001155897

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UniProt ID	P52793
Chromosome Location	3 F1; 3 48.5 cM
Pathway	Axon guidance
Function	activation of MAPK activity; ephrin receptor signaling pathway; neuron differentiation; notochord formation; regulation of angiogenesis; regulation of axonogenesis; regulation of blood vessel endothelial cell migration

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