

Active Recombinant Mouse Ephrin A1, His-tagged

Cat. No. Efna1-425M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Efna1 is expressed in Murine myeloma cell line, which has a molecule weight of 46.8kDa. Asp19 Ser182.
Species	Mouse
Source	Mammalian Cells
Description	EphrinA1, also known as B61 and LERK1, is a member of the EphrinA family of GPI-anchored ligands that bind and induce the tyrosine autophosphorylation of Eph receptors. EphrinA ligands are structurally related to the extracellular domains of the transmembrane EphrinB ligands. It can also be released as a soluble molecule. The mature 2125 kDa mouse EphrinA1 shares 85% and 94% aa sequence identity with human and rat EphrinA1, respectively. EphrinA1 is widely expressed on endothelial and epithelial cells, particularly in the lung, intestine, liver, and skin. It inhibits tumor cell proliferation and migration but also supports tumor growth by promoting angiogenesis. Soluble EphrinA1 additionally promotes neuronal survival and neurite extension.
Form	Lyophilized from a 0.2µm filtered solution in PBS.
N-terminal Sequence	Asp19
Molecular Weight	46.8 kDa
Activity	Measured by its binding ability in a functional ELISA. Immobilized rmEphA2/Fc Chimera at 2 µg/mL (100µl/well) can bind rmEphrinA1 Fc Chimera with a line range of

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	0.16 10 ng/mL.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Official Symbol	Efna1

GENE INFORMATION

Gene Name	Efna1 ephrin A1 [Mus musculus]
Synonyms	Efna1; ephrin A1; B61; Efl1; Epl1; Eplg1; Lerk1; LERK-1; AI325262; ephrin-A1; immediate early response protein B61; PH-related receptor tyrosine kinase ligand 1; EPLG1; TNFAIP4; ECKLG; EPH-related receptor tyrosine kinase ligand 1; Tumor necrosis factor alpha-induced protein 4; OTTHUMP00000033242; OTTHUMP00000033271
Gene ID	13636
mRNA Refseq	NM_001162425
Protein Refseq	NP_001155897

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UniProt ID	P52793
Pathway	Axon guidance
Function	ephrin receptor binding

Rendering based on
PDB3CZU.



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