



Product Datasheet

Product Name	Ephrin A1 Human Recombinant
Cata No	CB501111
Source	<i>Escherichia Coli.</i>
Synonyms	Ephrin-A1, EPH-related receptor tyrosine kinase ligand 1, LERK-1, Immediate early response protein B61, Tumor necrosis factor alpha-induced protein 4, EFNA1, EPLG1, LERK1, TNFAIP4, B61, EFL1, ECKLG.

Description

Ephrin A1 is a member of the ephrin (EPH) family. Ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases. Based upon their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are attached to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. Class A ephrins are linked to the membrane by a GPI linkage and bind primarily to EphA receptors; Class B ephrins contain a membrane-spanning region and bind primarily to EphB receptors.

Both ephrins and Eph receptors are largely expressed throughout the ectoderm, mesoderm, and endoderm of vertebrate embryos.

EFNA binds to the EPHA2, EPHA4, EPHA5, EPHA6, and EPHA7 receptors.

Two transcript variations which encode different isoforms were identified through sequence analysis.

During development the Eph receptor and their membrane-attached ligands, ephrins, show diverse expression patterns.

The ephrins and EPH-related receptors mediate developmental events, principally in the nervous system and in erythropoiesis. The critical roles of Eph and ephrins during development imply

involvement of these genes in congenital disorders affecting the nervous system and other tissues. Ephrins and Eph receptors are possibly involved in carcinogenesis.

Ephrin A1 Human Recombinant full length protein expressed in E.coli, shows a 47 kDa SDS-PAGE (Including GST).

The Ephrin A1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Purity/Formulation

Ephrin A1 protein at 100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.

Stability

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

Please prevent freeze-thaw cycles.

Applications

- ELISA
- Inhibition Assays
- Western Blotting

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