

Synonym

EFNA4,EPLG4,LERK4,Ephrin-A4

Source

Human Ephrin-A4, His Tag (EA4-H5229) is expressed from human 293 cells (HEK293). It contains AA Leu 26 - Gly 171 (Accession # [AAI07484](#)).

Predicted N-terminus: Leu 26

Molecular Characterization

Ephrin-A4(Leu 26 - Gly 171)
AAI07484 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 17.5 kDa. The protein migrates as 18-20 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

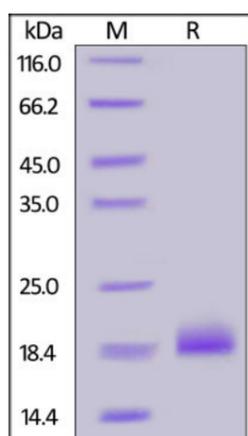
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human Ephrin-A4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Ephrin-A4 (EFNA4) is also known as EPH-related receptor tyrosine kinase ligand 4 (LERK4), EPLG4, which belongs to the ephrin family. EFNA4 contains one ephrin RBD (ephrin receptor-binding) domain. EFNA4 is cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. EFNA4 binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. EFNA4 may play a role in the interaction between activated B-lymphocytes and dendritic cells in tonsils.

References

- (1) [Aasheim H.-C., et al., 2000, Blood 95:221-230.](#)
- (2) [Kozlosky C.J., et al., 1995, Oncogene 10:299-306.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.