

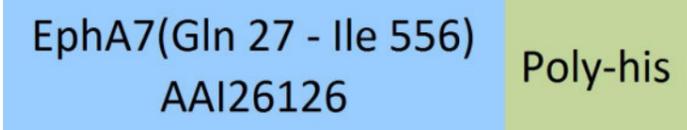
**Synonym**

EPHA7,EHK3,HEK11,hEK11

**Source**

Human EphA7, His Tag (EP7-H5221) is expressed from human 293 cells (HEK293). It contains AA Gln 27 - Ile 556 (Accession # AAI26126).

Predicted N-terminus: Gln 27

**Molecular Characterization**


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

The protein has a calculated MW of 60.2 kDa. The protein migrates as 70-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>98% 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.*

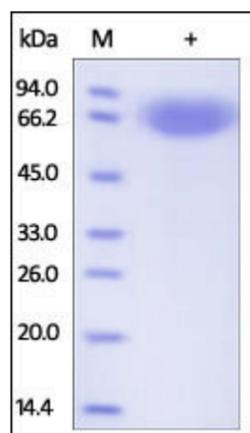
**Storage**

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 EphA7, 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 98%.

**Background**

Ephrin type-A receptor 7 (EPHA7) is also known as EPH homology kinase 3 (EHK3), EPH-like kinase 11 (HEK11), which belongs to the protein kinase superfamily or tyr protein kinase family or ephrin receptor subfamily. EPHA7 / EHK3 contains 1 Eph LBD (Eph ligand-binding) domain, 2 fibronectin type-III domains, 1 protein kinase domain, 1 SAM (sterile alpha motif) domain. EHK-3 / EPHA7 is widely expressed. The catalytic activity of EPHA7 / EHK3 is "ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate". EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin

type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands.

### References

- (1) [Nakanishi H., et al., 2007, Proc. Natl. Acad. Sci. U.S.A. 104:14442-14447.](#)
- (2) [Tsuboi M., et al., 2010, Int. J. Oncol. 36:635-640.](#)
- (3) [Eph nomenclature committee, 1997, Cell 90:403-404.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.