

EphA3 Protein, Mouse, Recombinant (aa 569-984, His & GST)

General Information

Synonyms:	ETK1;EPH receptor A3;Hek4;Mek4;AW492086;End3;Cek4;Hek;Tyro4
Protein Construction:	A DNA sequence encoding the mouse EPHA3 (EDK98238.1) (Gly569-Val984) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Predicted N terminal: Met
Species:	Mouse
Expression Host:	Baculovirus Insect Cells
Accession:	EDK98238.1
Molecular Weight:	74.3 kDa (predicted); 66 kDa (reducing conditions)

QC Testing

Biological Activity:	Kinase activity untested
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 20 mM Tris, 500 mM NaCl, 10% glycerol, pH 8.0.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

EPHA3 gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. 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. EPHA3 gene encodes a protein that binds ephrin-A ligands. EPHA3 is involved in the retinotectal mapping of neurons. It may also control the segregation but not the guidance of motor and sensory axons during neuromuscular circuit development. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

Reference

- Holder N, et al. (1999) Eph receptors and ephrins: effectors of morphogenesis. *Development*. 126(10):2033-44.
- Wilkinson DG. (2000) Eph receptors and ephrins: regulators of guidance and assembly. *Int Rev Cytol*. 196:177-244.
- Xu Q, et al. (2001) Roles of Eph receptors and ephrins in segmental patterning. *Philos Trans R Soc Lond B Biol Sci*. 355(1399):993-1002.

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