

## EphA3 Protein, Rat, Recombinant (His)

### General Information

Synonyms:	EPH receptor A3
Protein Construction:	A DNA sequence encoding the rat EPHA3 (EDL75897.1) (Met1-His541) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Glu 21
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	A6K4V7
Molecular Weight:	61.2 kDa (predicted); 70.5 kDa (reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized rat EPHA3-His at 10 µg/ml (100 µl /well) can bind rat EFNA5-Fc, The EC50 of ratEFNA5-Fc is 9-20ng/ml.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### 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 recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry 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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