

# Rat EphA3 Protein (His Tag)

Catalog Number: 80465-R08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

EphA3

### Protein Construction:

A DNA sequence encoding the rat EPHA3 (EDL75897.1) (Met1-His541) was expressed with a polyhistidine tag at the C-terminus.

Source: Rat

Expression Host: HEK293 Cells

## QC Testing

Purity: > 90 % as determined by SDS-PAGE

### Bio 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 (Cat:80105-R02H). The EC<sub>50</sub> of ratEFNA5-Fc (Cat:80105-R02H) is 9-20ng/ml.

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 21

### Molecular Mass:

The recombinant rat EPHA3 comprises 532 amino acids and predicts a molecular mass of 61.2 kDa. The apparent molecular mass of the recombinant protein is approximately 70.5 kDa in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

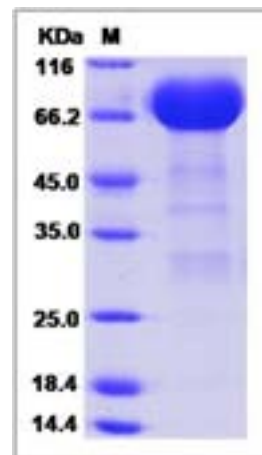
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

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.

## References

1. Holder N, *et al.* (1999) Eph receptors and ephrins: effectors of morphogenesis. *Development*. 126(10):2033-44.
2. Wilkinson DG. (2000) Eph receptors and ephrins: regulators of guidance and assembly. *Int Rev Cytol*. 196:177-244.
3. 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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