

## EphA2 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Eck;Sek-2;AW545284;Myk2;EPH receptor A2;Sek2
Protein Construction:	Lys26-Val538
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q03145
Molecular Weight:	57.95 kDa (Predicted); 60-70 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Activity testing is not tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### 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

Erythropoietin-producing hepatocellular receptor A2 (EphA2) receptor tyrosine kinase plays an important role in tissue organization and homeostasis in normal organs. EphA2 is overexpressed in a variety of types of solid tumours with oncogenic functions.

### Reference

- Flanagan JG, et al. (1998) The ephrins and Eph receptors in neural development. *Annu Rev Neurosci.* 21: 309-45.
- Cheng N, et al. (2002) The ephrins and Eph receptors in angiogenesis. *Cytokine Growth Factor Rev.* 13(1): 75-85.
- Pratt RL, et al. (2002) Activation of the EphA2 tyrosine kinase stimulates the MAP/ERK kinase signaling cascade. *Oncogene.* 21(50): 7690-9.
- Jennifer Walker-Daniels, et al. (2003) Differential Regulation of EphA2 in Normal and Malignant Cells. *Am J Pathol.* 162(4): 1037-1042.

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