

EphA2 Protein, Human, Recombinant (His)

General Information

Synonyms:	CTPA;EPH receptor A2;ECK;CTRCT6;CTPP1;ARCC2
Protein Construction:	Ala24-Val537
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P29317-1
Molecular Weight:	57.6 kDa (Predicted); 65-75 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized Human EphA2 His at 2 µg/ml (100 µl/well) can bind Human Ephrin-A1 His & hFc, the EC50 of Human Ephrin-A1 His & hFc is 4.0-20.0 ng/mL.
Purity:	≥ 95% as determined by SDS-PAGE. ≥ 90% as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm 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 sterile deionized 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:

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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