

## EPhA2 Protein, Cynomolgus, Recombinant (hFc)

### General Information

Synonyms:	EC:2.7.10.1;Ephrin type-A receptor 2;EPHA2
Protein Construction:	Ala24-Ser534
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q1KL86
Molecular Weight:	83.1 kDa (predicted). Due to glycosylation, the protein migrates to 90-100 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
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 a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent 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

Ephrin type-A receptor 2 (EPHA2) is a receptor tyrosine kinase (RTK), whose over-expression has been observed in a variety of cancers, including breast cancer. EPHA2 expression may be causally related to tumorigenesis; therefore, it is important to understand how EPHA2 gene (EPHA2) expression is regulated.

Reference

Okuyama T, et al. EPHA2 antisense RNA modulates EPHA2 mRNA levels in basal-like/triple-negative breast cancer cells. *Biochimie*. 2020 Dec;179:169-180. doi: 10.1016/j.biochi.2020.10.002. Epub 2020 Oct 3. PMID: 33022313.

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