

Mouse EPHB2 Protein

Cat. No. EPH-MM101

Description

Source	Recombinant Mouse EPHB2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val19-Leu543.
Accession	P54763-3
Molecular Weight	The protein has a predicted MW of 59.3 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

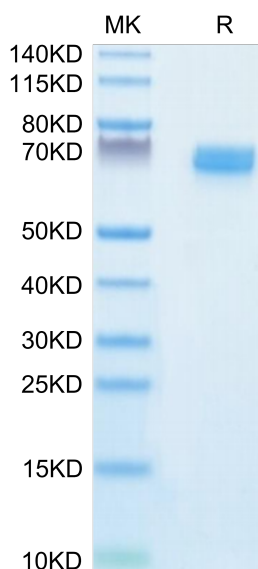
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

EphB2, a receptor tyrosine kinase for ephrin ligands, is overexpressed in various cancers and plays an important role in tumor progression. EPHB2 promotes endothelial-mesenchymal transition (EMT) and elicits associated pathologic characteristics of glioblastoma multiforme (GBM) such as invasion and migration. EPHB2 is epigenetically overexpressed in hypoxia, a condition highly prevalent in malignancy. Furthermore, HIF-2 α is required for EPHB2 stabilization by hypoxia.

Assay Data

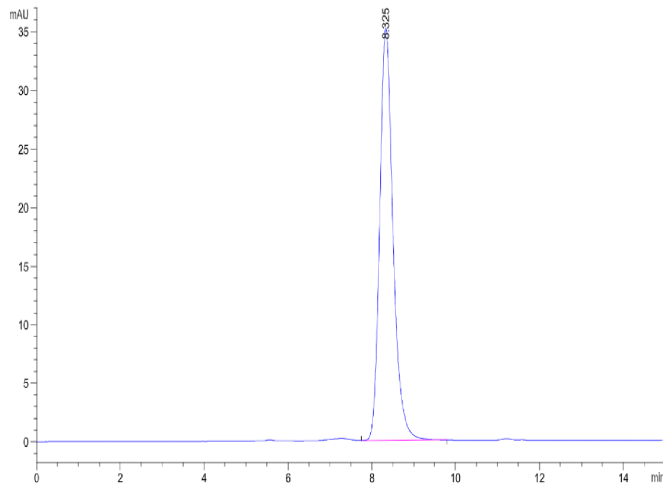
Bis-Tris PAGE



Human EPHB2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human EPHB2 is greater than 95% as determined by SEC-HPLC.