Human Ephrin-B2/EFNB2 Protein

Cat. No. ENB-HM201

Description

Source	Recombinant Human Ephrin-B2/EFNB2 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Ile28-Ala229.
Accession	NP_004084.1
Molecular Weight	The protein has a predicted MW of 49 kDa. Due to glycosylation, the protein migrates to 50-70 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

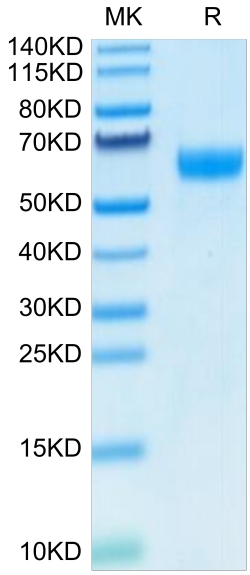
Formulation	Supplied as 0.22μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Ephrin-B2 controls platelet-derived growth factor receptor β (PDGFRβ) distribution in the VSMC plasma membrane, endocytosis, and signaling in a fashion that is highly distinct from its role in the endothelium. Ephrin-B2 is an important regulator of PDGFRβ endocytosis and thereby acts as a molecular switch controlling the downstream signaling activity of this receptor in mural cells.

Assay Data

Bis-Tris PAGE



Human Ephrin B2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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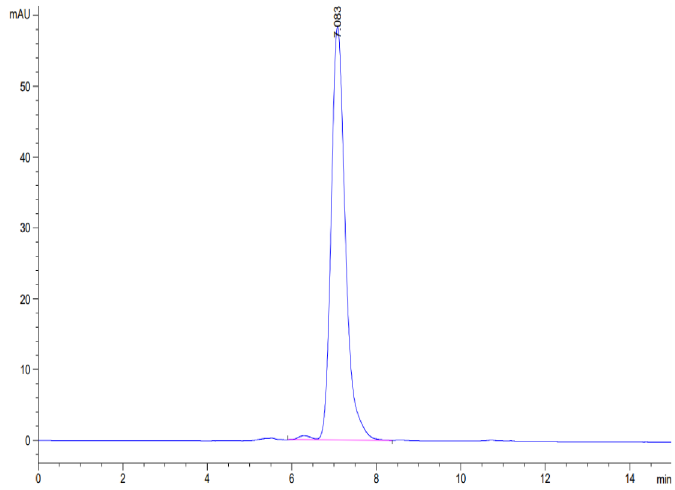
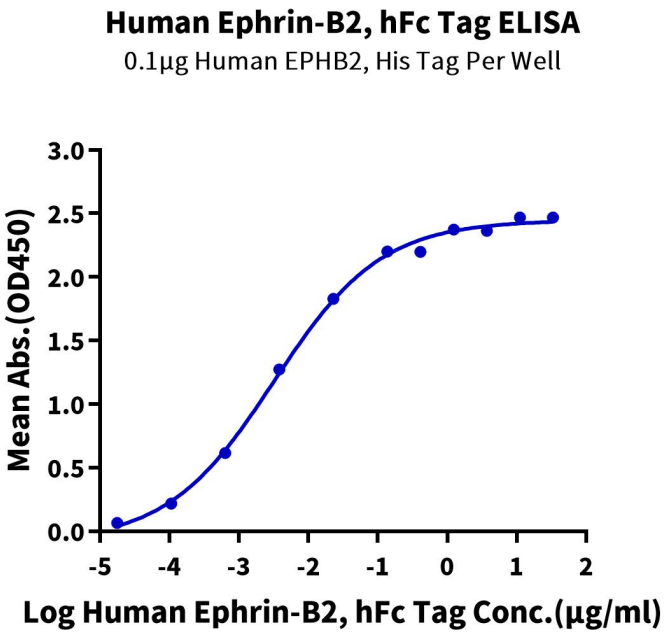
Assay Data



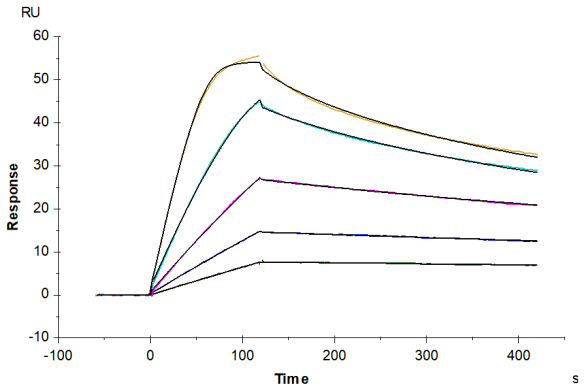
The purity of Human Ephrin B2 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human EPHB2, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human Ephrin-B2, hFc Tag with the EC50 of 3.2ng/ml determined by ELISA (QC Test).

SPR Data



Human Ephrin-B2, hFc Tag captured on CM5 Chip via Protein A can bind Human EPHB2, His Tag with an affinity constant of 82.97 pM as determined in SPR assay (Biacore T200).