

Recombinant Mouse Eph Receptor B4, Fc-His

Cat. No. Ephb4-1729M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse EphB4 (Leu16 - Ala539) produced in NSO Cells was fused to Fc region of human IgG1 (Pro100-Lys330) - 6xHis tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	16-539 a.a.
Description	Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene binds to ephrin-B2 and plays an essential role in vascular development.
Molecular Weight	The predicted molecular weight of Recombinant Mouse EphB4 is Mr 85.2 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 110 kDa.
State Of Matter	Lyophilized.

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Purity	>95% by SDS Page and analyzed by silver stain.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<0.1 ng per 1 µg as determined by the LAL method.
Biological Activity	The biological activity of Mouse EphB4 was determined by its binding ability in a functional ELISA. Immobilized recombinant mouse EphB4 at 2 µg/ml (100 µl/well) can bind recombinant mouse EphrinB2 with a linear range of 0.078-5 ng/ml.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Ephb4 Eph receptor B4 [Mus musculus]
Synonyms	Ephb4; Eph receptor B4; Htk; MDK2; Myk1; Tyro11; AI042935; OTTMUSP00000024612
Gene ID	13846
mRNA Refseq	NM_001159571
Protein Refseq	NP_001153043

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UniProt ID	P54761
Chromosome Location	5 G2
Pathway	Axon guidance
Function	ATP binding; ephrin receptor activity; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity
PDB rendering based on 2bba.	