

Recombinant Human EPH Receptor B3, GST-tagged

Cat. No. EPHB3-1214H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanEPHB3 catalytic domain (aa 623-907) with GST tag containing additionalC-terminal amino acids KGGRADPAFLYKVV. Activated in vitro via auto-phosphorylation.
Species	Human
Source	Insect Cells
ProteinLength	623-907 a.a.
Description	EPHB3 is a protein that in humans is encoded by theEPHB3 gene. Ephrin receptors and their ligands,the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrinsare divided into the ephrin-A (EFNA) class, which are anchored to themembrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB)class, which are transmembrane proteins.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
Molecular Weight	61.9 kDa
Concentration	0.35 mg/ml
Purity	≥ 90% as determinedby SDS-PAGE analysis.

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Specific Activity	580 nmole ofphosphate transferred to poly [Glu,Tyr] 4:1 substrate per minute per mg of totalprotein at 30°C.Activity determined at a final protein concentration of 2 µg/ml.
Storage	Stablefor 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	EPHB3
GENE INFORMATION	
Gene Name	EPHB3 EPH receptor B3 [Homosapiens]
Synonyms	EPHB3; EPH receptorB3; ETK2;HEK2; TYRO6; ephrin type-B receptor 3; EK2; EPH-like kinase 2; OTTHUMP00000210455;embryonic kinase 2; human embryo kinase 2; EPH-like tyrosine kinase 2; EPH-liketyrosine kinase-2; tyrosine-protein kinase TYRO6
Gene ID	2049
mRNA Refseq	NM_004443
Protein Refseq	NP_004434
MIM	601839
UniProt ID	P54753
Chromosome Location	3q21-qter
Pathway	Axon guidance; EPHBforward signaling; EphrinB-EPHB pathway
Function	ATP binding; axonguidance receptor activity; ephrin receptor activity; nucleotide

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