

EPHB2 recombinant protein

Recombinant EPHB2 (570-987) protein

CATALOG #
AAA60390

HOST
Baculovirus

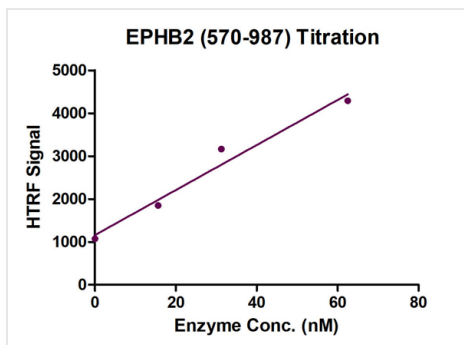
PRODUCT SYNONYMS

EPHB2; Recombinant EPHB2 (570-987) protein; EPH receptor B2; EPHT3; HEK5; DRT; ERK; Hek5; Tyro5; EPHB2 recombinant protein

PRODUCT SPECIFICATIONS

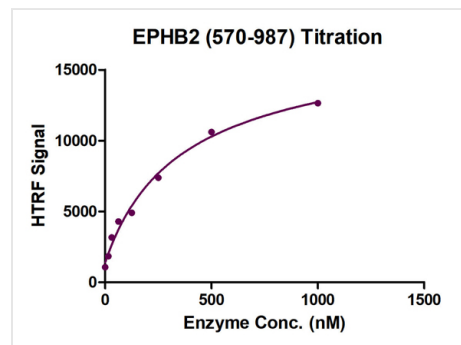
Host	Baculovirus
Form/Format	Recombinant EPHB2 (570-987) protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant EPHB2 (570-987) protein that includes amino acids 570-987 of human EPHB2 protein (accession number NP_004433.2) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 48.65kDa.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



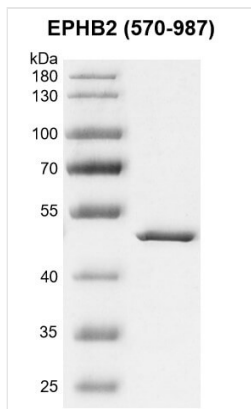
Application Data

HTRF assay for EPHB2 (570-987) activity 1 uM TK substrate was incubated with different concentrations of EPHB2 (570-987) protein in a 10 ul reaction system containing 1×Enzymatic Buffer, 5 mM MgCl₂, 1 mM MnCl₂, 1 mM DTT, 5nM SEB and 100 uM ATP for 1 hour. Then 10 ul detection reagents containing anti-TK antibody (1:2) and SA-XL665 (1:100) diluted with 1× Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant EPHB2 (570-987) protein 10% SDS-PAGE Coomassie staining MW: 48.65kDa
Purity: >=95%

ADDITIONAL INFORMATION

Related Product Information for EPHB2 recombinant protein

EPHB2 is a receptor tyrosine kinase, has a prototypical RTK topology including an N-terminal multidomain extracellular region, a membrane spanning region, and an intracellular region. EPHB2 binds promiscuously transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. Functions in axon guidance during development. Involved in the guidance of commissural axons, that form a major interhemispheric connection between the 2 temporal lobes of the cerebral cortex. Also involved in guidance of contralateral inner ear efferent growth cones at the midline and of retinal ganglion cell axons to the optic disk. In addition to axon guidance, also regulates dendritic spines development and maturation and stimulates the formation of excitatory synapses. Upon activation by EFNB1, abolishes the ARHGEF15-mediated negative regulation on excitatory synapse formation. Controls other aspects of development including angiogenesis, palate development and in inner ear development through regulation of endolymph production. Forward and reverse signaling through the EFNB2/EPHB2 complex regulate movement and adhesion of cells that tubularize the urethra and septate the cloaca. May function as a tumor suppressor. May be involved in the regulation of platelet activation and blood coagulation.

Product Categories/Family for EPHB2 recombinant protein

Kinase; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight

48.65kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ephb2-recombinant-protein-baculovirus/60390>