

## EPHA5 recombinant protein

Recombinant EPHA5 (620-1037) protein

|                              |                            |
|------------------------------|----------------------------|
| CATALOG #<br><b>AAA60389</b> | HOST<br><b>Baculovirus</b> |
|------------------------------|----------------------------|

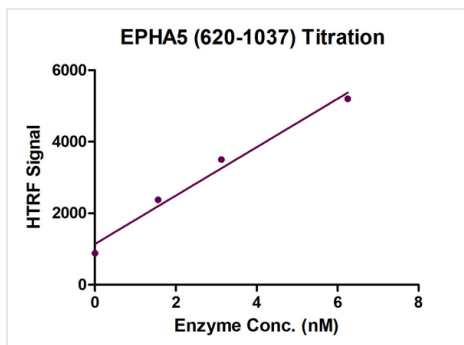
### PRODUCT SYNONYMS

EPHA5; Recombinant EPHA5 (620-1037) protein; Ephrin type-A receptor 5; CEK7; EHK1; Hek7; TYRO4; EPHA5 recombinant protein

### PRODUCT SPECIFICATIONS

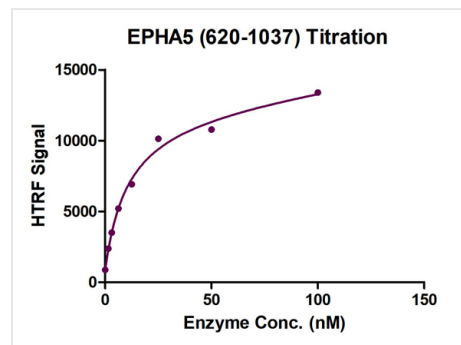
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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Baculovirus                                                                                                                                                                                                                                                               |
| Form/Format             | Recombinant EPHA5 (620-1037) protein is supplied 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 EPHA5 (620-1037) protein that includes amino acids 620-1037 of human EPHA5 protein (accession number NP_004430.4) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 48.41kDa. |
| 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



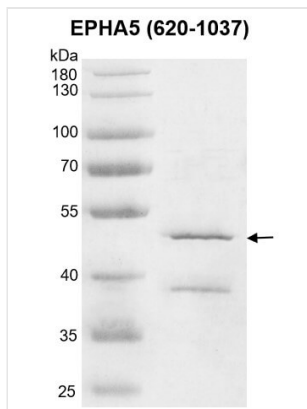
#### Application Data

HTRF assay for EPHA5 (620-1037) activity 1  $\mu$ M TK substrate was incubated with different concentrations of EPHA5 (620-1037) protein in a 10  $\mu$ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl<sub>2</sub>, 1mM MnCl<sub>2</sub>, 1 mM DTT, 5nM SEB and 100  $\mu$ M ATP for 1 hour. Then 10  $\mu$ l detection reagents containing anti-TK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$  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 EPHA5 (620-1037) protein 10% SDS-PAGE Coomassie staining MW:  
48.41kDa Purity: >=85%

### ADDITIONAL INFORMATION

#### Related Product Information for EPHA5 recombinant protein

EPHA5 (Ephrin type-A receptor 5) is a receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Among GPI-anchored ephrin-A ligands, EFNA5 most probably constitutes the cognate/functional ligand for EPHA5. Functions as an axon guidance molecule during development and may be involved in the development of the retinotectal, entorhino-hippocampal and hippocamposeptal pathways. Together with EFNA5 also plays a role in synaptic plasticity in adult brain through regulation of synaptogenesis. In addition to its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion.

#### Product Categories/Family for EPHA5 recombinant protein

Kinase; Recombinant Proteins

### NCBI AND UNIPROT INFORMATION

#### Molecular Weight

48.41kDa

**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://www.aaabiotech.com/epha5-recombinant-protein-baculovirus/60389>