# Recombinant Human Ephrin type-A receptor 3 (EPHA3), partial (Active)

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| **Product Code** | CSB-MP007723HU |
| **Relevance** | Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin 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. Highly promiscuous for ephrin-A ligands it binds preferentially EFNA5. Upon activation by EFNA5 regulates cell-cell adhesion, cytoskeletal organization and cell migration. Plays a role in cardiac cells migration and differentiation and regulates the formation of the atrioventricular canal and septum during development probably through activation by EFNA1. Involved in the retinotectal mapping of neurons. May also control the segregation but not the guidance of motor and sensory axons during neuromuscular circuit development. |
| **Abbreviation** | Recombinant Human EPHA3 protein, partial (Active) |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| **Uniprot No.** | P29320 |
| **Storage Buffer** | Lyophilized from a 0.2 μm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 |
| **Product Type** | Others |
| **Immunogen Species** | Homo sapiens (Human) |
| **Biological Activity** | ①Measured by its binding ability in a functional ELISA. Immobilized EPHA3 at 2 μg/ml can bind human EFNA5(CSB-MP007464HU), the EC50 of the protein is 0.9734-1.179 ng/ml. ②Human EPHA3 protein his tag (CSB-MP007723HU) captured on COOH chip can bind Human EFNA5 protein Fc tag (CSB-MP007464HU) with an affinity constant of 13.8 nM as detected by LSPR Assay. |
| **Purity** | Greater than 95% as determined by SDS-PAGE.<br>Greater than 95% as determined by SEC-HPLC. |
| **Sequence** | ELIPQPSNEVNLLDSKTIQGELGWISYPSHGWEEISGVDEHYTPIRTYQVCNVM DHSQNNWLRTNWVPRNSAQKIYVELKFTLRDCNSIPLVLGTCKETFNLYYMES DDDHGVKFREHQFTKIDTIAADESFTQMDLGDRILKLNTEIREVGPVNKKGFYL AFQDVGACVALVSVRVYFKKCPFTVKNLAMFPDTVPMDSQSLVEVRGSCVNN SKEEDPPRMYCSTEGEWLVPIGKCSCNAGYEERGFMCQACRPGFYKALDGN MKCAKCPPHSSTQEDGSMNCRCENNYFRADKDPPSMACTRPPSSPRNVISNI NETSVILDWSWPLDTGGRKDVTFNIICKKCGWNIKQCEPCSPNVRFLPRQFGL TNTTVTVTDLLAHTNYTFEIDAVNGVSELSSPPRQFAAVSITTNQAAPSPVLTIK KDRTSRNSISLSWQEPEHPNGIILDYEVKYYEKQEQETSYTILRARGTNVTISSL |

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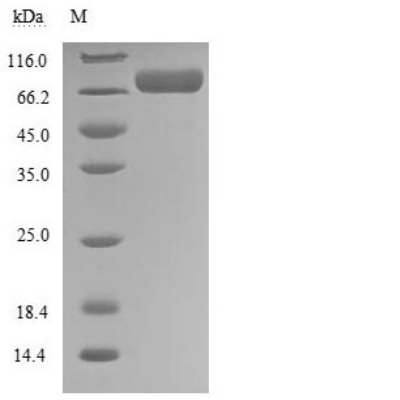
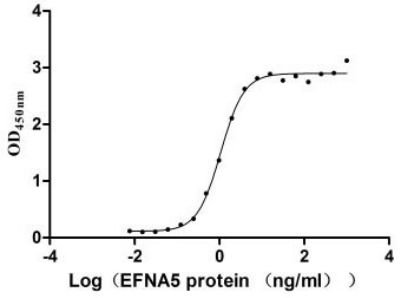
| | KPDTIYVFQIRARTAAGYGTNSRKFEFETSPDSFSISGESSQ |
| **Research Area** | Cancer |
| **Source** | Mammalian cell |
| **Target Names** | EPHA3 |
| **Expression Region** | 21-541aa |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | C-terminal 6xHis-tagged |
| **Mol. Weight** | 61.0 kDa |
| **Protein Length** | Partial |

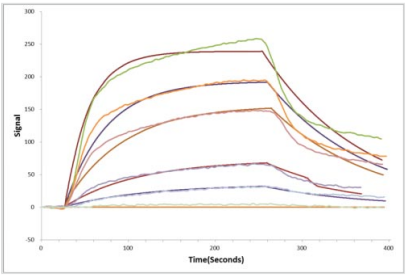
**Image**



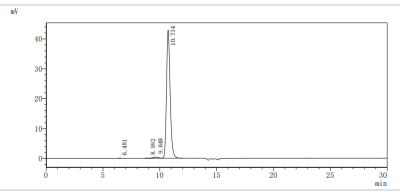

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.




Activity
Measured by its binding ability in a functional ELISA. Immobilized EPHA3 at 2 μg/ml can bind human EFNA5(CSB-MP007464HU), the $EC_{50}$ of the protein is 0.9734-1.179 ng/ml.




Activity
Human EPHA3 protein his tag (CSB-MP007723HU) captured on COOH chip can bind Human EFNA5 protein Fc tag (CSB-MP007464HU) with an affinity constant of 13.8 nM as detected by LSPR Assay.



The purity of Human EPHA3 was greater than 95% as determined by SEC-HPLC

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| **Endotoxin** | Less than 1.0 EU/ug as determined by LAL method. |
| **Shelf Life** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |