

EPHB2

Recombinant Human EPHB2 Active GST-His

Catalog No.	CSI11179	Quantity:	50 µg
Alternate Names:	CAPB, DRT, EPHT3, ERK, Hek5, MGC87492, PCBC, Tyro5, elk-related tyrosine kinase; eph tyrosine kinase 3; ephrin type-B receptor 2; protein-tyrosine kinase HEK5,		
Description:	Human EPHB2, Amino acids G ₅₇₀ -V ₉₈₇ (as in GenBank entry NM_004442)*, N-terminally fused to GST-HIS ₆ -Thrombin cleavage site. *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.131 µg/µl		
Gene ID:	2048		
Protein Accession No:	NM_004442		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 79.283 Da		
Formulation:	50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	EPHB2 was confirmed as human EPHB2 by mass spectroscopy LC-ESIMS/MS		
Activation:	pre-incubation with 0.1 mM ATP, followed by (NH ₄) ₂ SO ₄ precipitation. Multiple EPHB2 bands probably due to different phosphorylation states.		
Specific Activity:	10 pmol/µg×min		

Method for determination of K_m value and specific activity:

- Assay conditions:
 - 60 mM HEPES-NaOH, pH 7.5
 - 3 mM MgCl₂
 - 3 mM MnCl₂
 - 3 µM Na-orthovanadate
 - 1.2 mM DTT
 - 50 µg / ml PEG_{20,000}
 - ATP (variable)
 - Substrate: Poly(Ala,Glu,Lys,Tyr)_{6:2:5:1}
 - (Sigma P-1152), 20 µg / ml
 - Recombinant EPHB2: 2 µg / ml
- Filter binding assay
 - MAFC membrane (Millipore)

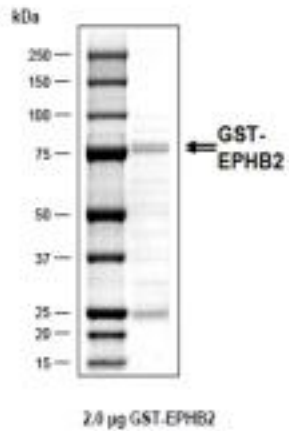


Storage & Stability:

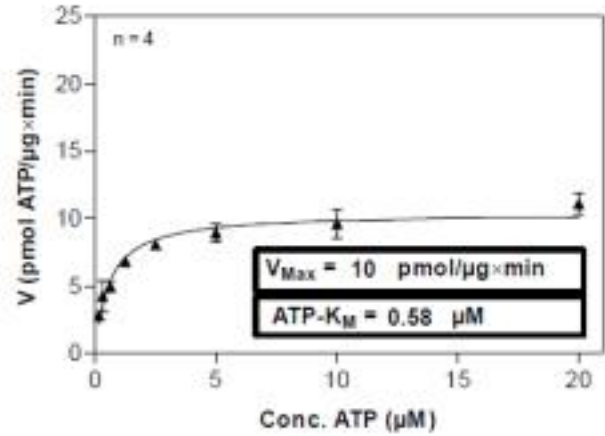
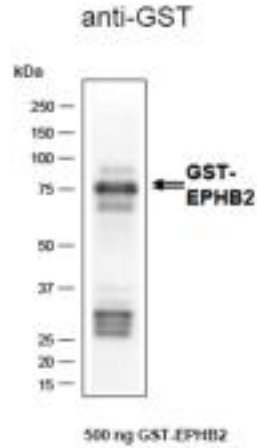
Store in working aliquots at -80°C . **Avoid repeated freeze-thaw cycles.**

Determination of K_m value for ATP:

Coomassie stain:



Western blot analysis:



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