

Recombinant Proteins

ProQinase™ EPHB1

aa565-984

Product No.: 0317-0000-1

Lot: 001

Description: Human EPHB1

Amino acids R_{565} - A_{984} (as in GenBank entry NM_004441.2)*, N-terminally fused to GST-

HIS6-Thrombin cleavage site

*Sequence may contain documented polymorphisms Detailed sequence on request

Product identity: EPHB1, Lot 001, was confirmed as human EPHB1 by mass spectroscopy LC-ESI-

MS/MS (Protagen AG, Germany)

Theoretical MW_{Fusion Protein}: 76,906 Da

Expression: Baculovirus infected Sf9 cells

Purification: One-step affinity purification using

GSH-agarose

Storage buffer: 50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 15 mM reduced

glutathione, 20% glycerol

Storage temperature: -80°C Avoid repeated freeze-thaw cycles!

Protein concentration: $0.500 \mu g/\mu l$ (Bradford method using BSA [Sigma,

cat# A-7638, Lot 79H7641] as standard protein)

Method for determination of K_m value & Specific activity:

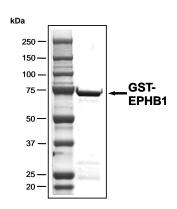
· Assay conditions:

60 mM HEPES-NaOH, pH 7.5 3 mM MgCl $_2$ 3 mM MnCl $_2$ 3 μ M Na-orthovanadate 1.2 mM DTT 2.5 μ g / 50 μ l PEG $_{20.000}$ ATP (variable) Substrate: Poly(Glu,Tyr) $_{4:1}$ (Sigma P-0275), 1 μ g / 50 μ l Recombinant EPHB1: 50 ng / 50 μ l

 Filter binding assay MAFC membrane (Millipore)

Specific activity: 72 pmol/µg×min

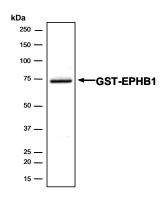
Coomassie stain:



2.0 µg GST-EPHB1

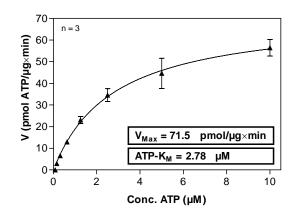
Western blot analysis:

anti-GST



0.5 μg GST-EPHB1

Determination of K_m value for ATP:



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