# **Certificate of Analysis**



## ProQinase<sup>™</sup> EPHA1

aa569-976

Product No.: 0215-0000-1

Thrombin cleavage site

Lot: 002

### **Description:** Human EPHA1 Amino acids $R_{569}$ - $D_{976}$ (as in GenBank entry XM\_056982)\*, N-terminally fused to GST-HIS<sub>6</sub>-

\*Sequence may contain documented polymorphisms Detailed sequence on request

**Product identity:** EPHA1, Lot 002, was confirmed as human EPHA1 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany)

Theoretical MW<sub>Fusion Protein</sub>: 79,631 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:** 0.071 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein)

Method for determination of  $K_m$  value & Specific activity:

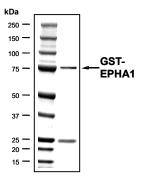
· Assay conditions:

60 mM HEPES-NaOH, pH 7.5 3 mM MgCl<sub>2</sub> 3 mM MnCl<sub>2</sub> 3  $\mu$ M Na-orthovanadate 1.2 mM DTT 2.5  $\mu$ g / 50  $\mu$ I PEG<sub>20.000</sub> ATP (variable) Substrate: Poly(Glu,Tyr)<sub>4:1</sub>, (Sigma P-0275), 2  $\mu$ g / 50  $\mu$ I Recombinant EPHA1: 50 ng / 50  $\mu$ I

• Filter binding assay MAFC membrane (Millipore)

#### Specific activity: 4 pmol/µg×min

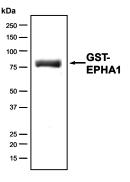
#### Coomassie stain:



2.0 µg GST-EPHA1

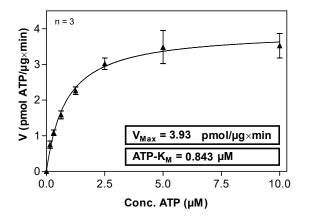
#### Western blot analysis:

anti-GST



0.5 µg GST-EPHA1

#### Determination of K<sub>m</sub> value for ATP:



**Recombinant Proteins** 

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