Certificate of Analysis



ProQinase[™] 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-HIS₆-

*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_{Fusion Protein}: 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:

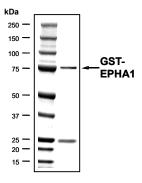
· Assay conditions:

60 mM HEPES-NaOH, pH 7.5 3 mM MgCl₂ 3 mM MnCl₂ 3 μ M Na-orthovanadate 1.2 mM DTT 2.5 μ g / 50 μ I PEG_{20.000} ATP (variable) Substrate: Poly(Glu,Tyr)_{4:1}, (Sigma P-0275), 2 μ g / 50 μ I Recombinant EPHA1: 50 ng / 50 μ I

• Filter binding assay MAFC membrane (Millipore)

Specific activity: 4 pmol/µg×min

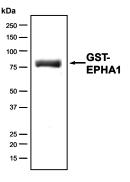
Coomassie stain:



2.0 µg GST-EPHA1

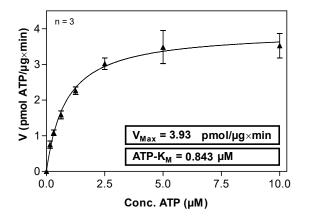
Western blot analysis:

anti-GST



0.5 µg GST-EPHA1

Determination of K_m value for ATP:



Recombinant Proteins

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