Certificate of Analysis



ProQinase™ FAK aa411-686

focal adhesion kinase

Synonyms: PTK2, FADK

Product No.: 0480-0000-6

Lot: 009

Description: Human FAK, internal fragment, amino acids S₄₁₁-Q₆₈₆ (as in GenBank entry L13616)*, untagged, expressed in Sf9 insect

cells

*Sequence may contain documented polymorphisms Detailed sequence on request

Product identity: FAK, Lot 009, was confirmed as FAK by mass spectroscopy LC-ESI-MS/MS

(Protagen AG, Germany)

Theoretical MW: 31,807 Da

Expression: Baculovirus infected Sf9 cells

Purification: One-step affinity purification using Ni-MAC, followed by cleavage of the Hise tag

Storage buffer: 50 mM HEPES pH 7.5. 100 mM NaCl, 5 mM DTT, 4 mM reduced

glutathione, 20% glycerol

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

Protein concentration: 1.075 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 µM Na-orthovanadate 1.2 mM DTT $2.5 \, \mu g / 50 \, \mu l \, PEG_{20.000}$ ATP (variable) Substrate: Poly(Glu:Tyr)4-1

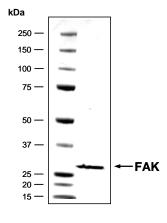
(Sigma 20K5903), 0.5 µg / 50 µl

FAK tr: 200 ng / 50 µl Filter binding assay

MSFC membrane (Millipore)

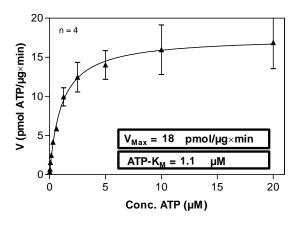
Specific activity: 18 pmol/µg×min

Coomassie stain:



2.0 µg FAK

Determination of K_m value for ATP:



Proteins

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