FAK aa411-686

focal adhesion kinase

Synonyms: PTK2, FADK

Product No.: 0480-0000-6

Lot: 009

Description: Human FAK, internal fragment, amino acids S_{411}-Q_{686} (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 His_6 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!

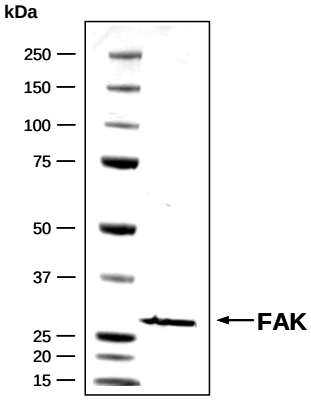
Protein concentration: 1.075 µg/µl
(Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein)

Method for determination of K_m value & Specific activity:

- Assay conditions:
  60 mM HEPES-NaOH, pH 7.5
  3 mM $MgCl_2$
  3 mM $MnCl_2$
  3 µM Na-orthovanadate
  1.2 mM DTT
  2.5 µg / 50 µl $PEG_{20.000}$
  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)

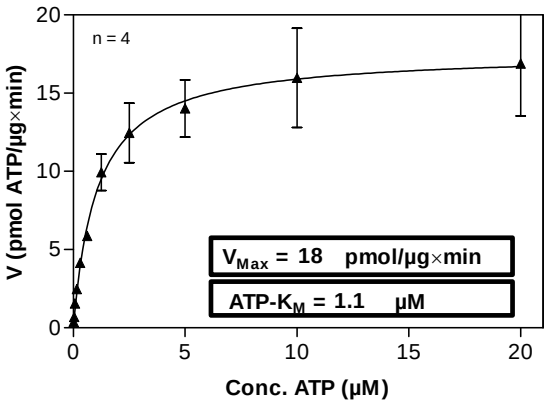
Specific activity: 18 pmol/µg×min

Coomassie stain:



2.0 µg FAK

Determination of K_m value for ATP:



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