Creative Enzymes®

Active Focal Adhesion Kinase from Human, Recombinant

Cat. No. NATE-0800

Lot. No. (See product label)

Introduction

Description	FAK is a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. At least four transcript variants encoding four different isoforms have been found for this gene, but the full-length natures of only two of them have been determined.
Synonyms	Focal adhesion kinase 1; EC 2.7.10.2; FADK 1; pp125FAK; Protein-tyrosine kinase 2; FAK; FADK; FAK1; PTK2; FRNK; PPP1R71; p125FAK

Product Information

Species	Human
Source	Baculovirus, SF9 insect cells
EC Number	EC 2.7.10.2
Molecular Weight	146.7 kDa
Purity	Greater than 70% as determined by SDS-PAGE.
Activity	72 nmole of phosphate transferred to poly [Glu,Tyr] 4:1 substrate/minute/mg of total protein at 30°C.
Concentration	4μg/ml
Buffer	20mM Tris pH-7.5, 10% Glycerol, 0.02% Triton X-100, 0.1mg/ml BSA, 0.5mM Na3VO4, 2mM DTT

Storage and Shipping Information

Stability	Store at 4°C if entire vial will be used within 1-2 weeks. Store, frozen at -20°C to -80°C for longer periods of time. Avoid multiple freeze-thaw cycles.