

ACK1, Human Recombinant

CATALOG NO: P1499-10 10 µg
P1499-50 50 µg

ALTERNATE NAMES: Tyrosine kinase non-receptor protein 2, CDC42 kinase 1, TNK2

MOL. WT. 43.5 KDa (aa 110-476, N terminal His tag)

SOURCE: Insect Cells (Sf9)

PURITY: >95% SDS-PAGE

FORM: Liquid

FORMULATION: Supplied as 50 mM Tris, 150 mM NaCl, pH 7.5, 0.25 mM DTT, 0.1 mM EDTA and 35% Glycerol

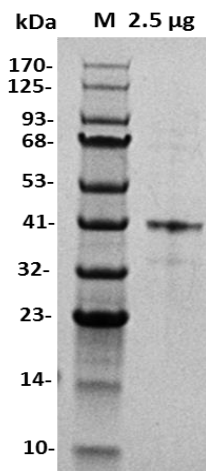
SPECIFIC ACTIVITY: The specific activity is ≥ 500 U/mg. Specific activity was tested using BioVision's ADPsensor™ Universal Kinase Activity Assay Kit (Cat# K212).

UNIT DEFINITION: One unit of ACK1 is the amount of enzyme that generates 1.0 µmol of ADP per min at pH 7.2 at 37°C using poly (Glu:Tyr, 4:1) synthetic peptide as substrate.

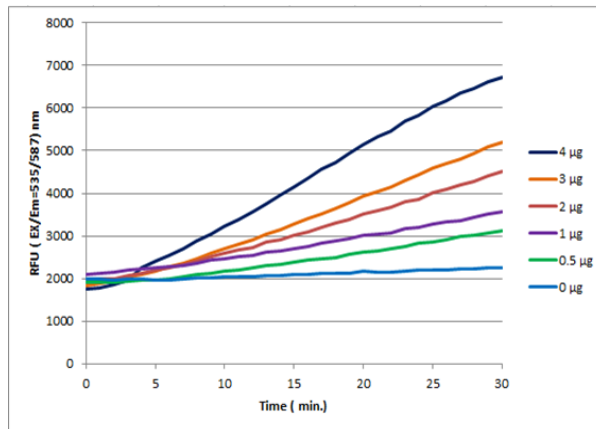
STORAGE CONDITIONS: Aliquot and store enzyme at -70 °C. Avoid repeated freeze-thaw cycles.

DESCRIPTION: Activated CDC42 kinase 1, also known as ACK1, is an enzyme that is encoded by the TNK2 gene in humans. TNK2 gene encodes a non-receptor tyrosine kinase, ACK1, that binds to multiple receptor tyrosine kinases e.g. EGFR, MERTK, AXL, HER2 and insulin receptor (IR). ACK1 also interacts with Cdc42Hs in its GTP-bound form and inhibits both the intrinsic and GTPase-activating protein (GAP)-stimulated GTPase activity of Cdc42Hs. This binding is mediated by a unique sequence of 47 amino acids C-terminal to an SH3 domain.

AMINO ACID SEQUENCE: aa 110-476



SDS-PAGE (4-20%) of ACK1. 2.5 µg of recombinant ACK-1 was loaded under reducing conditions and stained with Coomassie Blue. Lane M-MW Marker



ACK1 Enzyme activity: The specific activity of ACK1 is ≥ 500 U/mg assayed with BioVision's ADPsensor™ Universal Kinase Activity Assay Kit (Cat# K212).

RELATED PRODUCTS:

- Human CellExp™ VEGF R2 / KDR, Fc Tag Mouse Recombinant (P1259)
- Src1, Active (7750)
- Human CellExp™ EGFR/ErbB1, human recombinant (7396)
- ADPsensor™ Universal Kinase Activity Assay Kit (K212)

FOR RESEARCH USE ONLY! Not to be used on humans.