

Bioactive

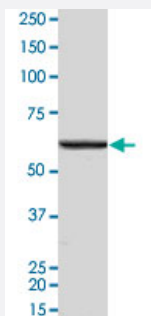
Full-Length

STK16 (Human) Recombinant Protein

Catalog # P4788

Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Determination of V_{max} and K_M value for ATP

Assay conditions:

60 mM HEPES-NaOH, pH 7.5

3 mM $MgCl_2$

3 mM $MnCl_2$

3 uM Na-orthovanadate

1.2 mM DTT

50 ug/mL PEG_{20,000}

ATP (variable)

Substrate: Casein 200 ug/mL

Kinase: 2 ug/mL

Filter binding assay:

MSFC membrane (Millipore)

Specification

Product Description

Human STK16 (NP_001008910.1, 1 a.a. - 305 a.a.) full-length recombinant protein with GST-His tag with a Thrombin cleavage site at N-terminal expressed in Sf9 insect cells.

Sequence

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLT
QSMALLRYADKHNMLGGCPKERAESMLEGAVLDIRYGVSRAYS KDFETLKVDFLSKLPEMLKMF
EDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIQIDKYLKSSKYIA
WPLQGWQATFGGGDHPPKSDPMGHHHHHHGRRRASVAAGILVPRGSPGLDGYARGIQMGHAL
CVCSRGTVIDNKRYLFIQKLGE GGSYVDLVEGLHDGHFYALKRILCHEQQDREEAQREADMHRL
FNHPNILRLVAYCLRERGAKHEAWLLLPFFKRGT LWNEIERLKDKNFLTEDQILWLLLGICRGLEAI
HAKGYAHRDLKPTNILLGDEGQPVLMDLGSMNQACIHVEGSRQALTLQDWAAQRCTISYRAPELF
SVQSHCVIDERTDVWSLGC VLYAMMFGE GPYDMVFQKGDSVALAVQNQLSIPQSPRHSSALRQ
LLNSMMTVDPHQRP HPIPLLLSQLEALQPPAPGQH TTQI

Host

insect

Theoretical MW (kDa)

64.393

Form

Liquid

Preparation Method

Insect cell (Sf9) expression system

Purification

GST-Affinity Chromatography

Concentration

1.020 ug/uL

Activation

This kinase was not activated by special procedures.

Activity

Specific kinase activity (P_i transfer): 3.5 pmol/ug x min
ATP- K_M : 0.3 uM

Quality Control Testing

2 ug/lane SDS-PAGE Stained with Coomassie Blue

Storage Buffer

In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0 (5 mM DTT, 15 mM reduced glutathione, 20% glycerol).

Storage Instruction

Store at -80°C.
Aliquot to avoid repeated freezing and thawing

Note

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ATP (variable)
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Kinase: 2 μ g/mL

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Applications

- Functional Study
- SDS-PAGE

Gene Info — STK16

Entrez GeneID	8576
Protein Accession#	NP_001008910.1
Gene Name	STK16
Gene Alias	FLJ39635, KRCT, MPSK, PKL12, TSF1
Gene Description	serine/threonine kinase 16
Omim ID	604719
Gene Ontology	Hyperlink
Other Designations	protein kinase expressed in day 12 fetal liver