

Recombinant human VRK3 protein

Catalog Number: ATGP1585

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-474aa

UniProt No.

Q8IV63

NCBI Accession No.

NP_057524

Alternative Names

Inactive serine/threonine-protein kinase VRK3, Vaccinia related kinase 3

PRODUCT SPECIFICATION

Molecular Weight

55.3 kDa (497aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

VRK3, also known as inactive serine/threonine-protein kinase, belongs to the protein kinase superfamily. In both human and mouse, this gene has substitutions at several residues within the ATP binding motifs that in other kinases have been shown to be required for catalysis. In vitro assays indicate the protein lacks phosphorylation activity. The protein, however, likely retains its substrate binding capability. VRK3 is widely expressed in human tissues and its protein localizes to the nucleus. Recombinant human VRK3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Recombinant human VRK3 protein

Catalog Number: ATGP1585

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMISFCPD CGKSIQAAFK FCPYCGNSLP VEEHVGSQTF VNPHVSSFQG SKRGLNSSFE
TSPKKVKWSS TVTSPRLSLF SDGDSSSEED TLSSSERSKG SGSRPPTPKS SPQKTRKSPQ VTRGSPQKTS CSPQKTRQSP
QTLKRSRVTT SLEALPTGTV LTDKSGRQWK LKSFQTRDNQ GILYEAAPTS TLTCDSGPQK QKFSLKLDK DGRLFNEQNF
FQRAAKPLQV NKWKKLYSTP LLAIPTCMGF GVHQDKYRFL VLPSLGRSLQ SALDVSPKHV LSERSVLQVA CRLLEDALEFL
HENEYVHGNV TAENIFVDPE DQSQVTLAGY GFAFRYCPSP KHVAYVEGSR SPHEGDLEFI SMDLHKGCGP SRRSDLQSLG
YCMLEKWLQYGF LPWTNCLPNT EDIMKQKQKF VDKPGPFVGP CGHWIRPSET LQKYLKVVMA LTYEEKPPYA MLRNNLEALL
QDLRVSPYDP IGLPMVP

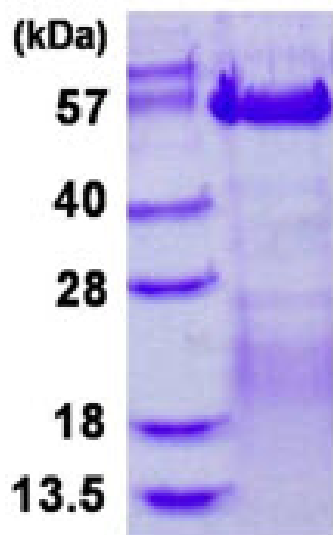
General References

Nichols R.J., et al. (2004) J. Biol. Chem. 279:7934-7946

Scheeff E.D., et al. (2009) Structure. 17:128-138

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)