

Recombinant Human HIPK1, GST-tagged

Cat. No. HIPK1-516H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HIPK1 (156-555) was expressed in Sf9 cells using an N-terminal GST tag, 71kDa.
Species	Human
Source	Sf9 Cells
Protein Length	156-555 a.a.
Description	HIPK1 or homeodomain-interacting protein kinase 1 is a ser/thr protein kinase and a member of the HIPK family. HIPK 1 is a nuclear kinase that phosphorylates homeodomain transcription factors. HIPK1 phosphorylates DAXX and this leads to its relocalization and subsequent decrease in transcriptional repression activity. HIPK1 also interacts with p53 and phosphorylates it on serine residues. HIPK 1 expression is elevated in breast cancer cell lines and embryonic fibroblasts from HIPK 1-null mice show more susceptibility to apoptosis induced by DNA damage .
Formulation	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Purity	The purity was determined to be >90% by densitometry. Camk2α Approx.
Concentration	0.1 µg/µl.
Specific Activity	The specific activity of HIPK1 was determined to be 79 nmol /min/mg as per activity

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assay protocol.

Storage And Stability

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

HIPK1 homeodomain interacting protein kinase 1 [Homo sapiens]

Synonyms

homeodomain interacting protein kinase 1; Myak; Nbak2; KIAA0630; MGC26642; MGC33446; MGC33548; HIPK1; homeodomain-interacting protein kinase 1; nuclear body associated kinase 2b; homeodomain interacting protein kinase 1-like protein; OTTHUMP00000013763; OTTHUMP00000013768; EC 2.7.11.1

Gene ID

204851

mRNA Refseq

NM_152696.3

Protein Refseq

NP_689909.2

MIM

608003

UniProt ID

Q86Z02

Chromosome Location

1p13.2

Function

protein serine/threonine kinase activity; ATP bindingnucleotide binding; protein binding; transferase activity

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