Recombinant Human Death-Associated Protein Kinase 3, GST-tagged

Cat. No. DAPK3-892H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the full length of human DAPK3 (NP_001339.1) (Met 1 - Arg 454) was fused with the GST tag at the N-terminus
Species	Human
Source	Human
ProteinLength	1-454 a.a.
Description	Death-associated protein kinase 3 is a nucleus and cytoplasm protein. DAPK3 / ZIPK regulates myosin light chain phosphatase through phosphorylation of MYPT1 thereby regulating the assembly of the actin cytoskeleton, cell migration, invasiveness of tumor cells, smooth muscle contraction and neurite outgrowth. It is involved in the formation of promyelocytic leukemia protein nuclear body (PML-NB), one of many subnuclear domains in the eukaryotic cell nucleus, and which is involved in oncogenesis and viral infection.
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10mM GSH, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Purity	> 85 % as determined by SDS-PAGE
Endotoxin	1.0 EU per μg protein as determined by the LAL method

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Stability	Samples are stable for up to twelve months from date of receipt at -70 °C
Predicted N terminal	Met
Molecular Mass	The recombinant human DAPK3/GST chimera consists of 678 amino acids and predicts a molecular mass of 79 kDa. It migrates as an approximately 70 kDa band in SDS-PAGE under reducing conditions.
Storage	Store it under sterile conditions at -70°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	DAPK3 death-associated protein kinase 3 [Homo sapiens]
Official Symbol	DAPK3
Synonyms	DAPK3; death-associated protein kinase 3; ZIP; ZIPK; FLJ36473; ZIP kinase isoform; EC 2.7.11.1; ZIP-kinase
Gene ID	1613
mRNA Refseq	NM_001348
Protein Refseq	NP_001339
MIM	603289
UniProt ID	O43293

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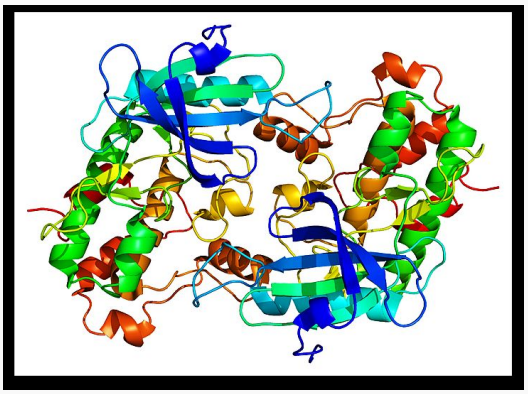
Chromosome Location	19p13.3
Pathway	Bladder cancer; Pathways in cancer
Function	ATP binding; calmodulin binding; nucleotide binding ; protein serine/threonine kinase activity transferase activity
PDB rendering basedon 1yrp.	

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