Recombinant human Nucleoside diphosphate kinase A

Catalog No: #AP71791

Package Size: #AP71791-1 20ug #AP71791-2 100ug #AP71791-3 1mg

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Description

Product Name	Recombinant human Nucleoside diphosphate kinase A
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-152aaSequence Info:Full Length
Other Names	Granzyme A-activated DNase ;GAADMetastasis inhibition factor nm23NM23-H1Tumor metastatic process-associated protein
Accession No.	P15531
Uniprot	P15531
GeneID	4830;
Calculated MW	44 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	ANCERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVGLKFMQASEDLLKEHYVDLKDRPFFAGLVKYMHSGPVVAMVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVESAEKEIGLWFHPEELVDYTSCAQNWIYE
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma phosphate is transferred to the NDP beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate. Possesses nucleoside-diphosphate kinase, serine,threonine-specific protein kinase, geranyl and farnesyl pyrophosphate kinase, histidine protein kinase and 3'-5' exonuclease activities. Involved in cell proliferation, differentiation and development, signal transduction, G protein-coupled receptor endocytosis, and gene expression. Required for neural development including neural patterning and cell fate determination. During GZMA-mediated cell death, works in concert with TREX1. NME1 nicks one strand of DNA and TREX1 roves bases from the free 3' end to enhance DNA damage and prevent DNA end reannealing and rapid repair.

References

Isolation and characterization of a novel human NM23-H1B gene, a different transcript of NM23-H1.Ni X., Gu S., Dai J., Cheng H., Guo L., Li L., Ji C., Xie Y., Ying K., Mao Y.J. Hum. Genet. 48:96-100(2003)Research Topic:Developmental Biology

Note: This product is for in vitro research use only