

CDK9/CyclinT1 Recombinant Protein | CDK9 recombinant protein

CDK9/CyclinT1, Active

CATALOG #
AAA73360

HOST
Sf9 insect cells

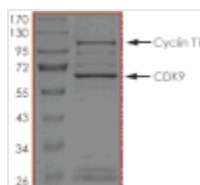
PRODUCT SYNONYMS

CDK9/CyclinT1; Active; CDK9: CDC2L4; C-2k; TAK; PITALRE CyclinT1: CCNT; CYCT1; HIVE1; CDK9 recombinant protein

PRODUCT SPECIFICATIONS

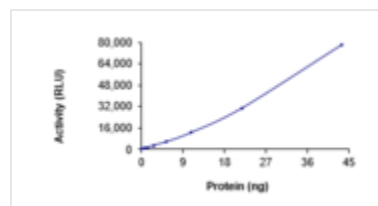
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 25% glycerol.
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for CDK9 recombinant protein

Recombinant full-length human CDK9 and CyclinT1 proteins were co-expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag. The gene accession numbers for CDK9 and CyclinT1 are NM_001261 and, NM_001240, respectively.

Cyclin-dependent kinase 9 (Cdk9) is a cdc2-like serine/threonine kinase that associates with cyclin T1 to form a heterodimer. CDK9/Cyclin T1 heterodimer is the main component of the positive transcription elongation factor (P-TEFb) which is critical for the stabilization of the elongation process of RNA polymerase II generated transcripts (1). P-TEFb containing Cdk9 and cyclin T1 is essential for the replication of the human immunodeficiency virus type 1 and type 2 in human cells (2). Cdk9-associated pathway are linked to human malignancies and cardiac hypertrophy (3).

Product Categories/Family for CDK9 recombinant protein

Protein Kinases; Angiogenesis; Apoptosis/Autophagy; Cancer; Cell Cycle; Cellular Stress; Inflammation; Phosphatases

References

1. Gaetano, R. et. al: Role of the cyclin-dependent kinase 9-related pathway in mammalian gene expression and human diseases. Cell Cycle. 7:23, 3664-3668, 2008.
2. Lin, X. et. al: P-TEFb containing cyclin K and Cdk9 can activate transcription via RNA. J Biol Chem. 277:16873-8, 2002.
3. Malumbres, M. et. al: CDK inhibitors in cancer therapy: what is next? Trends Pharmacol Sci. 29:16-21, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_001261](#)

Molecular Weight

approx. MW: 68kDa/110kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/cdk9/cyclint1-recombinant-protein-sf9/73360>