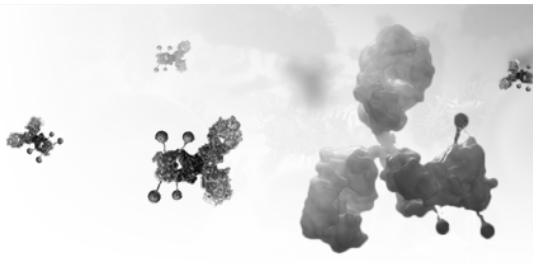

Human CDK9 peptide (DAG-P1403)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2, and known as important cell cycle regulators. This kinase was found to be a component of the multiprotein complex TAK/P-TEFb, which is an elongation factor for RNA polymerase II-directed transcription and functions by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. This protein forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. HIV-1 Tat protein was found to interact with this protein and cyclin T, which suggested a possible involvement of this protein in AIDS. [provided by RefSeq, Jul 2008]
Specificity	Ubiquitous.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.Contains 1 protein kinase domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	CDK9 cyclin-dependent kinase 9 [Homo sapiens (human)]
Official Symbol	CDK9
Synonyms	CDK9; cyclin-dependent kinase 9; TAK; C-2k; CTK1; CDC2L4; PITALRE; CDC2-related kinase;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	cell division protein kinase 9; serine/threonine protein kinase PITALRE; cell division cycle 2-like protein kinase 4; tat-associated kinase complex catalytic subunit;
Entrez Gene ID	1025
mRNA Refseq	NM_001261.3
Protein Refseq	NP_001252.1
UniProt ID	P50750
Chromosome Location	9q34.1
Pathway	Disease, organism-specific biosystem; Formation of HIV elongation complex in the absence of HIV Tat, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of RNA Pol II elongation complex, organism-specific biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; HIV Infection, organism-specific biosystem; HIV Life Cycle, organism-specific biosystem; HIV Transcrip
Function	ATP binding; DNA binding; RNA polymerase II carboxy-terminal domain kinase activity; chromatin binding; cyclin-dependent protein serine/threonine kinase activity; protein binding; protein kinase activity; snRNA binding; transcription regulatory region DNA

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221