

Recombinant Bovine CDK5R1, GST-tagged

Cat. No. CDK5R1-687B Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant bovine cleaved Cdk5 activator (p35) fused to GST was expressed in <i>E. coli</i> . It is produced as a 35 kDa precursor and further cleaved into the 25 kDa form of the protein. MW = 51 kDa.
Species	Bovine
Source	<i>E. coli</i>
Description	Cleaved Cdk5 activator is an essential regulating subunit of cdk5. Aberrant Cdk5 activity has been implicated in a number of neurodegenerative diseases such as Alzheimer's disease, amyotrophic lateral sclerosis, and Parkinson's disease, where abnormal phosphorylation of tau and/or neurofilaments has been observed. One vial contains sufficient material for approximately 25 reactions.
Form	Liquid. In 25 mM Tris-HCl, 100 μ M DTT, 30% glycerol, pH 7.4. Please refer to vial label for lot-specific concentration.
Unit Definition	One unit is defined as the amount of protein that when reconstituted with Cdk5 will transfer 1 pmol of phosphate to Histone H1 peptide (9-18) per min at 30°C, pH 7.2.
Specific Activity	\geq 100,000 units/mg protein.
Toxicity	Standard Handling (MSDS available upon request).
Storage	-20°C . Avoid freeze/thaw Following initial thaw, aliquot and freeze (-20°C).

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GENE INFORMATION

Gene Name	CDK5R1 cyclin-dependent kinase 5, regulatory subunit 1 (p35) [Bos taurus]
Synonyms	cyclin-dependent kinase 5, regulatory subunit 1 (p35); P25/P35; cyclin-dependent kinase 5 activator 1; p23; CDK5 activator 1; TPKII regulatory subunit; tau protein kinase II 23 kDa subunit; cyclin-dependent kinase 5 regulatory subunit 1
Gene ID	282173
mRNA Refseq	NM_174512
Protein Refseq	NP_776937
UniProt ID	Q28199
Chromosome Location	19
Pathway	Alzheimer"s disease
Function	cadherin binding; calcium ion binding; kinase activity; protein binding; cyclin-dependent protein kinase 5 activator activity; protein serine/threonine kinase activator activity

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