

Datasheet for ABIN6699589  
**CDK5R1 Protein (GST tag)**



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## Overview

Quantity:	20 µg
Target:	CDK5R1
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDK5R1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

## Product Details

Purpose:	CDK5P25 recombinant protein-GST fusion protein
Purification:	Recombinant human CDK5R1 (98-end) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry.
Purity:	>85%

## Target Details

Target:	CDK5R1
Alternative Name:	CDK5R1 ( <a href="#">CDK5R1 Products</a> )
Background:	<p>Synonyms: p25, CDK5R1, CDK5R, NCK5A, p23, Cyclin-dependent kinase 5 activator 1, CDK5 activator 1, Cyclin-dependent kinase 5 regulatory subunit 1, TPKII regulatory subunit</p> <p>Background: CDK5P25 (cyclin-dependent kinase 5, regulatory subunit 1) is a neuron-specific</p>

## Target Details

activator of CDK5 and is required for proper development of the central nervous system (1). The p35 form of this protein is proteolytically cleaved by calpain, generating a p25 form of the protein which relocates from the cell periphery to nuclear and perinuclear regions. CDK5P25 regulates CDK5 activity by prolonging its activation and changing its cellular location and this may be important in pain signaling (2). The CDK5P25 accumulates in the brain neurons of patients with Alzheimer's disease and this accumulation correlates with an increase in CDK5 kinase activity which may result in aberrantly phosphorylated forms of the microtubule-associated protein tau. CDK5P25 Protein is ideal for investigators involved in Signaling Proteins, Cell Cycle Proteins, Cancer, Cell Cycle, and Ser/Thr Kinases research.

NCBI Accession:	<a href="#">NM_003885</a>
Pathways:	<a href="#">Stem Cell Maintenance</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a>

## Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: CDK5P25 Protein is suitable for use in Western Blot. Expect a band approximately ~ 49 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	0.2 µg/µL
Buffer:	CDK5P25 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	Store product at -70°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.
Expiry Date:	12 months