

Datasheet for 009-001-R64S**CDK5P25 protein-GST fusion****Overview**

Description:	CDK5P25 recombinant protein-GST fusion protein - 009-001-R64S
Item No.:	009-001-R64S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	CDK5P25 (cyclin-dependent kinase 5, regulatory subunit 1) is a neuron-specific 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.
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
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	CDK5R1
Purity/Specificity:	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.
Relevant Links:	• NCBI - NM_003885

Application Details

Application Note:	CDK5P25 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. CDK5P25 Protein is suitable for use in Western Blot. Expect a band approximately ~ 49kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

