

## Recombinant Human CDK5/SNAP25, GST-tagged, Active

Cat. No. CDK5/SNAP25-276H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human full-length CDK5 and p25 were co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag on both proteins. MW=59 kDa and p25 ~49 kDa.

**Species** Human

**Source** Sf9 Cells

**Description** CDK5 is a member of the Cyclin-Dependent Kinase family that is most abundant in the mammalian brain. Active form of CDK5, which has also been called neuronal cdc2-like kinase, is a heterodimer of CDK5 and a 25 kDa protein which is derived proteolytically from a 35 kDa brain and neuron-specific protein and is essential for the kinase activity of CDK5. CDK5 has emerged as a crucial regulator of neuronal migration in the developing central nervous system. CDK5 phosphorylates a diverse list of substrates, implicating it in the regulation of a range of cellular processes - from adhesion and motility, to synaptic plasticity and drug addiction.

**Sequence** Full-length.

**Applications** Kinase Assay, Western Blot.

**Storage And Stability** Store product at  $-70^{\circ}\text{C}$ . 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

<b>Gene Name</b>	CDK5 cyclin-dependent kinase 5 [ Homo sapiens ],SNAP25 synaptosomal-associated protein, 25kDa [ Homo sapiens ]
<b>Synonyms</b>	CDK5; cyclin-dependent kinase 5; PSSALRE;Cell division protein kinase 5;EC2.7.11.22; Cyclin-dependent kinase 5; Tau protein kinase II catalytic subunit; TPKII catalytic subunit; Serine/threonine-protein kinase; SNAP25; FLJ23079; RIC-4; RIC4; SEC9; SNAP; SNAP-25; SUP; Super-Protein, bA416N4.2; dJ1068F16.2; synapse protein 25,isoform A; CG40452-PA; Snap25-PA; synapse protein 25, isoform B; CG40452-PB; Snap25-PB; OTTHUMP00000030267; OTTHUMP00000030268; Super protein; Synaptosomal-associated 25 kDa protein; resistance to inhibitors of cholinesterase 4 homolog; synaptosomal-associated protein 25; synaptosomal associated protein, 25kDa; Synaptosomal-associated protein, 25kDa; SNAP-25 (synaptosome-associated protein of 25,000 daltons).EF-hand calcium binding protein; FLJ23079
<b>Gene ID</b>	1020,6616
<b>mRNA Refseq</b>	NM_001164410,NM_003081
<b>Protein Refseq</b>	NP_001157882,NP_003072
<b>UniProt ID</b>	Q00535,P60880
<b>Chromosome Location</b>	7q36, 20p12-p11.2
<b>MIM</b>	123831,600322
<b>Pathway</b>	Alzheimer"s disease; Axon guidance; Opioid Signalling; SNARE interactions in

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

vesicular transport; Botulinum neurotoxicity; Diabetes pathways; Integration of energy metabolism; Synaptic Transmission

**Function**

ATP binding; ErbB-2 class receptor binding; ErbB-3 class receptor binding; acetylcholine receptor activator activity; cyclin-dependent protein kinase activity; nucleotide binding; p53 binding; transferase activity; tau-protein kinase activity; SNAP receptor activity; SNAP receptor activity; soluble NSF attachment protein activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA