Recombinant Human CDK5R1 Protein, GST-Tagged

Cat. No. CDK5R1-1022H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDK5R1 full-length ORF (AAH20580.1, 1 a.a. - 307 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene (p35) is a neuron-specific activator of cyclin-dependent kinase 5 (CDK5); the activation of CDK5 is required for proper development of the central nervous system. The p35 form of this protein is proteolytically cleaved by calpain, generating a p25 form. The cleavage of p35 into p25 results in relocalization of the protein from the cell periphery to nuclear and perinuclear regions. P25 deregulates CDK5 activity by prolonging its activation and changing its cellular location. The p25 form accumulates in the brain neurons of patients with Alzheimer's disease. This accumulation correlates with an increase in CDK5 kinase activity, and may lead to aberrantly phosphorylated forms of the microtubule-associated protein tau, which contributes to Alzheimer's disease. [provided by RefSeq, Jul 2008]
Molecular Mass	60.5 kDa
AA Sequence	MGTVLSLSPSYRKATLFEDGAATVGHYTAVQNSKNAKDKNLKRHSIISVLPWKRIVA VSAKKKNSKKVQPNSSYQNNITHLNNENLKKSLSCANLSTFAQPPPAQPPAPPASQL SGSQTGGSSSVKKAPHPAVTSAGTPKRVIVQASTSELLRCLGEFLCRRCYRLKHLSP

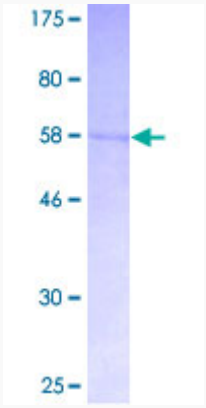
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	TDPVLWLRSVDRSLLLQGWQDQGFITPANVVFLYMLCRDVISSEVGSDHELQAVLLT CLYLSYSYMGNEISYPLKPFLVESCKEAFWDRCLSVINLMSSKMLQINADPHYFTQV FSDLKNESGQEDKKRLLLGLDR
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CDK5R1 cyclin-dependent kinase 5, regulatory subunit 1 (p35) [Homo sapiens]
Official Symbol	CDK5R1
Synonyms	CDK5R1; cyclin-dependent kinase 5, regulatory subunit 1 (p35); cyclin-dependent kinase 5 activator 1; Nck5a; p35nck5a; CDK5 activator 1; neuronal CDK5 activator; TPKII regulatory subunit; regulatory partner for CDK5 kinase; tau protein kinase II 23kDa subunit; cyclin-dependent kinase 5 regulatory subunit 1; p23; p25; p35; CDK5R; NCK5A; CDK5P35; MGC33831;
Gene ID	8851
mRNA Refseq	NM_003885
Protein Refseq	NP_003876

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MIM	603460
UniProt ID	Q15078
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.

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