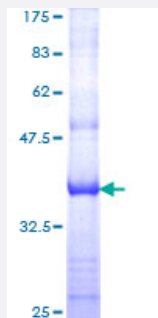


CDK5R1 (Human) Recombinant Protein (Q01)

Catalog # H00008851-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CDK5R1 partial ORF (AAH20580, 208 a.a. - 307 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	CRDVISSEVGSDHELQAVLLTCLYLSYSYMGNEISYPLKPFLVESCKEAFWDRCLSVINLMSSKML QINADPHYFTQVFSDLKNESGQEDKKRLLLGLDR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CDK5R1

Entrez GeneID [8851](#)

GeneBank Accession# [BC020580](#)

Protein Accession# [AAH20580](#)

Gene Name CDK5R1

Gene Alias CDK5P35, CDK5R, MGC33831, NCK5A, p23, p25, p35, p35nck5a

Gene Description cyclin-dependent kinase 5, regulatory subunit 1 (p35)

Omim ID [603460](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations CDK5 activator 1|TPKII regulatory subunit|cyclin-dependent kinase 5 activator 1|cyclin-dependent kinase 5, regulatory subunit 1|neuronal CDK5 activator|regulatory partner for CDK5 kinase|tau protein kinase II 23kDa subunit

Disease

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