



# Recombinant Human Cyclin-dependent kinase 5 activator 1 (CDK5R1)

<b>Product Code</b>	CSB-EP624014HU-B
<b>Abbreviation</b>	CDK5R1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q15078
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	GTVLSLSPS YRKATLFEDG AATVGHYTAV QNSKNAKDKN LKRHSIISVL PWKRIVAVSA KKKNSKKVQP NSSYQNNITH LNNENLKKSL SCANLSTFAQ PPPAQPPAPP ASQLSGSQTG GSSSVKKAPH PAVTSAGTPK RVIVQASTSE LLRCLGEFLC RRCYRLKHL S PTDPVLWLR S VDRSLLLQGW QDQGFITPAN VFLYMLCRD VISSEVGS DH ELQAVLLTCL YLSYSYMGNE ISYPLKPFLV ESCKEAFWDR CLSVINLMSS KMLQINADPH YFTQVFS DLK NESGQEDKKR LLLGLDR
<b>Source</b>	E.coli
<b>Target Names</b>	CDK5R1
<b>Protein Names</b>	Recommended name: Cyclin-dependent kinase 5 activator 1 Short name= CDK5 activator 1 Alternative name(s): Cyclin-dependent kinase 5 regulatory subunit 1 TPKII regulatory subunit Cleaved into the following 2 chains: 1. Cyclin-depende
<b>Expression Region</b>	2-307
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein (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.

---

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.