

Product datasheet

Recombinant Human CDK5R1(p25) protein. ab125653

[1 References](#) [1 Image](#)

Description

Product name	Recombinant Human CDK5R1(p25) protein.
Purity	> 85 % Densitometry. Purity was determined to be >85% by densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>Q15078</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	49 kDa including tags
Amino acids	98 to 307
Tags	GST tag N-Terminus
Description	Recombinant Human CDK5R1 protein

Specifications

Our **Abpromise guarantee** covers the use of **ab125653** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot SDS-PAGE
Form	Liquid

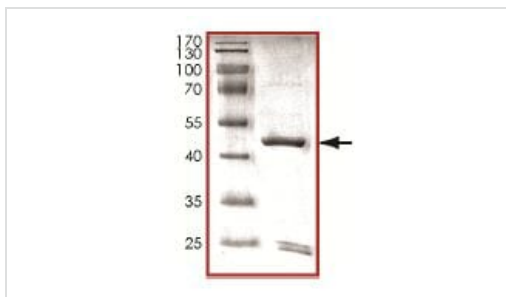
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride
------------------------------	---

General Info

Function	p35 is a neuron specific activator of CDK5. The complex p35/CDK5 is required for neurite outgrowth and cortical lamination. Activator of TPKII.
Tissue specificity	Brain and neuron specific.
Sequence similarities	Belongs to the cyclin-dependent kinase 5 activator family.
Post-translational modifications	The p35 form is proteolytically cleaved by calpain, giving rise to the p25 form. P35 has a 5 to 10 fold shorter half-life compared to p25. The conversion results in deregulation of the CDK5 kinase: p25/CDK5 kinase displays an increased and altered tau phosphorylation in comparison to the p35/CDK5 kinase in vivo. Probably myristoylated. The Gly-2-Ala mutant is absent of the cell periphery, suggesting that a proper myristoylation signal is essential for the proper distribution of p35.
Cellular localization	Cell membrane. In the primary cortical neurons, p35 is present in the peripheries and nerve terminals and Nucleus. Cytoplasm > perinuclear region. The conversion of p35 to p25 relocalizes the protein from the cell periphery to the cytoplasm, in nuclear and perinuclear regions. In the primary cortical neurons, p25 is primarily concentrated in the cell soma and is largely absent from neurites.

Images



SDS-PAGE analysis of ab125653.

SDS-PAGE - Recombinant Human CDK5R1(p25) protein. (ab125653)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors