

Datasheet for ABIN7558886

CDK5RAP1 Protein (AA 1-588) (His tag)



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Overview

Quantity:	1 mg
Target:	CDK5RAP1
Protein Characteristics:	AA 1-588
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDK5RAP1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Cdk5rap1 Protein expressed in mammalian cells.
Sequence:	<p>MHPLRCVLQV QRLSAPFTSM CWVLLRTCRA QSSVSSTPCP SPEAKSSEAQ KDFSSRLATG PTFQHFLRSA SVPQEKPPSP EVEDPPPYLS GDELLGRQRK VYLETYGCQM NVNDTEIAWS ILQKSGYLRT SNLQEADVIL LVTCSIREKA EQTIWNRLHQ LKVLKTKRPR SRVPLRIGIL GCMAERLKGE ILNREKMVDL LAGPDAYRDL PRLLAVVESG QQAANVLLSL DETYADIMPV QTSPSATSFA VSIMRGCDNM CSYCIVPFTR GRERSRPVAS ILDEVRLKSE QGLKEVTLLG QNVNSFRDNS EVQFNNAGSA NLSRGFTTNY KPKQGGLRFS HLLDQVSRID PEMRIRFTSP HPKDFPDEV LQIRERHNIC KQIHLPAQSG SSRVLDAMRR GYSREAYVAL VHHVRETIPG VSLSSDFITG FCGETEDDHR QTVSLLREVQ YNTGFLFAYS MRQKTRAYHR LKDDVPPEEVK LRRLEELITV FREEASKANK TSVGCSQLVL VEGFSKRSTT DLGGRNDANL KVIFPDAAVE DITNPGLKVR AQP GDYVLVK ITSASSQTLK GHILCRTTMK DSLTYCTT Sequence without tag.</p> <p>The proposed Purification-Tag is based on experiences with the expression system, a</p>

different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	CDK5RAP1
Alternative Name:	Cdk5rap1 (CDK5RAP1 Products)
Background:	<p>Mitochondrial tRNA methyltransferase CDK5RAP1 (EC 2.8.4.3) (CDK5 activator-binding protein C42) (CDK5 regulatory subunit-associated protein 1) (mt-tRNA-2-methylthio-N6-dimethylallyl)adenosine synthase) (mt-tRNA-N6-(dimethylallyl)adenosine(37) methyltransferase),FUNCTION: Methyltransferase that catalyzes the conversion of N6-(dimethylallyl)adenosine (i(6)A) to 2-methylthio-N6-(dimethylallyl)adenosine (ms(2)i(6)A) at position 37 (adjacent to the 3'-end of the anticodon) of four mitochondrial DNA-encoded tRNAs (Ser(UCN), Phe, Tyr and Trp) (PubMed:25738458). Essential for efficient and highly accurate protein translation by the ribosome (PubMed:25738458). Specifically inhibits CDK5 activation by CDK5R1 (By similarity). Essential for efficient mitochondrial protein synthesis and respiratory chain (PubMed:25738458). {ECO:0000250 UniProtKB:Q96SZ6, ECO:0000269 PubMed:25738458}.</p>

Target Details

Molecular Weight: 66.1 kDa

UniProt: [Q8BTW8](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months