

Datasheet for ABIN7553382

CDK5RAP1 Protein (AA 1-601) (His tag)



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Overview

Quantity:	1 mg
Target:	CDK5RAP1
Protein Characteristics:	AA 1-601
Origin:	Human
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:	MHPLQCVLQV QRSLGWGPLA SVSWLSLRMC RAHSSLSTM CPSPERQEDG ARKDFSSRLA AGPTFQHFLK SASAPQEKLS SEVEDPPPYL MMDELLGRQR KVYLETYGCQ MNVNDTEIAW SILQKSGYLR TSNLQEADVI LLVTCSIREK AEQTIWNRLH QLKALKTRRP RSRVPLRIGI LGCMAERLKE EILNREKMVD ILAGPDAYRD LPRLAVAES GQQAANVLLS LDETYADVMP VQTSASATSA FVSIMRGCDN MCSYCVIPFT RGRERSRPIA SILEEVKKLS EQVFLPPRPP KVLGLQGLKE VTLLGQNVNS FRDNSEVQFN SAVPTNLSRG FTTNYKTKQG GLRFAHLLDQ VSRVDPEMRI RFTSPHPKDF PDEVQLIHE RDNICKQIHL PAQSGSSRVL EAMRRGYSRE AYVELVHHIR ESIPGVSLSS DFIAGFCGET EEDHVQTVSL LREVQYNMGF LFAYSMRQKT RAYHRLKDDV PEEVKLRRLE ELITIFREEA TKANQTSVGC TQLVLVEGLS KRSATDLCGR NDGNLKVIFP DAEMEDVNNP GLRVRAQPGD YVLVKITSAS SQTLRGHVLC RTTLRDSSAY C Sequence without tag. The proposed Purification-Tag is based on experiences with the

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

Characteristics:	Key Benefits: • 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). 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	CDK5RAP1
Alternative Name:	CDK5RAP1 (CDK5RAP1 Products)
Background:	Mitochondrial tRNA methylthiotransferase 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) methylthiotransferase),FUNCTION: Methylthiotransferase 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:22422838, PubMed:25738458, PubMed:28981754). Essential for efficient and highly accurate protein translation by the ribosome (PubMed:22422838, PubMed:25738458, PubMed:28981754). Specifically inhibits CDK5 activation by CDK5R1 (PubMed:11882646). Essential for efficient mitochondrial protein synthesis and respiratory chain, shows pathological consequences in mitochondrial disease

Target Details

	(PubMed:25738458). {ECO:0000269 PubMed:11882646, ECO:0000269 PubMed:22422838, ECO:0000269 PubMed:25738458, ECO:0000269 PubMed:28981754}.
Molecular Weight:	67.7 kDa
UniProt:	Q96SZ6

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