

Datasheet for ABIN7564439

Casein Kinase 1 gamma 2 Protein (AA 1-415) (His tag)



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Overview

Quantity:	1 mg
Target:	Casein Kinase 1 gamma 2 (CSNK1G2)
Protein Characteristics:	AA 1-415
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Casein Kinase 1 gamma 2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Csnk1g2 Protein expressed in mammalian cells.
Sequence:	<p>MDFDKKGGKG ELEEGRMSK TGTSRSNHGV RSSGTSSGVL MVGPNFRVGK KIGCGNFGEL</p> <p>RLGKNLYTNE YVAIKLEPIK SRAPQLHLEY RFYKQLSTTE GVPQVYFPG CGKYNAMVLE</p> <p>LLGPSLEDLF DLCDRFTLTK TVLMIAQLI TRMEYVHTKS LIYRDVKPEN FLVGRPGSKR</p> <p>QHSIHIDFG LAKEYIDPET KKHIPYREHK SLTGTYRMS INTHLGKEQS RRDDLEALGH</p> <p>MFMYFLRGSL PWQGLKADTL KERYQKIGDT KRATPIEVLCSFPEEMATY LRYVRRLDFF</p> <p>EKPDYDYLK LFTDLFDRSG YVFDYEYDWA GKPLPTPIGT VHPDVPSQPP HRDKAQLHTK</p> <p>NQALNSTNGE LNTDDPTAGH SNAPIAAPAE VEVADETKCC CFFKRRKRKS LQRHK Sequence</p> <p>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.</p>
Characteristics:	Key Benefits:

Product Details

- 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: Casein Kinase 1 gamma 2 (CSNK1G2)

Alternative Name: Csnk1g2 ([CSNK1G2 Products](#))

Background: Casein kinase I isoform gamma-2 (CKI-gamma 2) (EC 2.7.11.1),FUNCTION: Serine/threonine-protein kinase. Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling (By similarity). Phosphorylates MTA1 (PubMed:15077195). Phosphorylates COL4A3BP/CERT and SMAD3. SMAD3 phosphorylation promotes its ligand-dependent ubiquitination and subsequent proteasome degradation, thus inhibiting SMAD3-mediated TGF-beta responses. Hyperphosphorylation of the serine-repeat motif of COL4A3BP/CERT leads to its inactivation by dissociation from the Golgi complex, thus down-regulating ER-to-Golgi transport of ceramide and sphingomyelin synthesis. Triggers PER1 proteasomal degradation probably through phosphorylation (By similarity). Involved in brain development and vesicular trafficking and neurotransmitter releasing from small synaptic vesicles. Regulates fast synaptic transmission mediated by glutamate (PubMed:16014721). Involved in regulation of reactive oxygen species (ROS) levels (By similarity). {ECO:0000250|UniProtKB:P48729, ECO:0000250|UniProtKB:P78368,

Target Details

	ECO:0000269 PubMed:15077195, ECO:0000269 PubMed:16014721}.
Molecular Weight:	47.6 kDa
UniProt:	Q8BVP5
Pathways:	Hedgehog Signaling

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