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AAK1 Protein (AA 1-959) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	AAK1
Protein Characteristics:	AA 1-959
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AAK1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MKKFFDSRRE QGSSGLGSGS SGGGGSSSGL GSGYIGRVFG IGRQQVTVDE VLAEGGFALV
FLVRTSNGVK CALKRMFVNN EHDLQVCKRE IQIMRDLSGH KNIVGYIDSS INNVSSGDVW
EVLILMDFCR GGQVVNLMNQ RLQTGFTENE VLQIFCDTCE AVARLHQCKT PIIHRDLKVE
NILLHDRGHY VLCDFGSATN KFQNPQAEGV NAVEDEIKKY TTLSYRAPEM VNLYSGKIIT
TKADIWALGC LLYKLCYFTL PFGESQVAIC DGSFTIPDNS RYSQDMHCLI RYMLEPDPDK
RPDIYQVSYF SFKLLKKECP VPNVQNSPIP AKLPEPVKAS EAAVKKTQPK ARLTDPIPTT
ETSIAPRQRP KAGQTQPNPG ILPIQPALTP RKRATVQPLP QAAGPSNQPG LLPSVSQPKA
QATPSQPLQS SQPKQPQAPP TPQQTPATQT QGLPTQAQAT PQHQQQHLLK QQQQQQQQQ
QPTAPPQPAG TFYQQQQQQQ QQQAQTQQFQ AVHPAAQQPV TAQFPVGSQG GAQQQLMQNF
YHQQQQQQQQ QQQLMAQQAA LQQKTAVVVP QSQAQPATAP QAAAAQEPGQ IQAPVRQQPK
VQTTPPPTIQ GQKVGSLTPP SSPKTQRAGH RRILSDVTHS AVFGVPASKS TQLLQAAAAE
ASLNKSKSAT TTPSGSPRTS QQNVSNASEG STWNPFDDDN FSKLTAEELL NKDFAKLGEG

KLPEKLGGSA ESLIPGFQPT QGDAFTTPSF SAGTAEKRKG GQAVDSGIPL LSVSDPFIPL QVPDAPEKLI EGLKSPDTSL LLPDLLPMTD PFGSTSDAVI DKADVAVESL IPGLEPPVAQ RLPSQTESVT SNRTDSLTGE DSLLDCSLLS NPTAGLLEEF APIALSAPTH KAAEDSNLIS GFGVAEGSEK VAEDEFDPIP VLITKNTQGG HSRNSSGSSE SSLPNLARSL LLVDQLIDL

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

	We use the Expasy's protparam tool to determine the absorption coefficient of each protein.			
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):			
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.			
	Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.			
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.			
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)			
Grade:	Crystallography grade			
Target Details				
Target:	AAK1			
Alternative Name:	Aak1 (AAK1 Products)			
Background:	AP2-associated protein kinase 1 (EC 2.7.11.1) (Adaptor-associated kinase 1),FUNCTION:			
	Regulates clathrin-mediated endocytosis by phosphorylating the AP2M1/mu2 subunit of the			
	adaptor protein complex 2 (AP-2) which ensures high affinity binding of AP-2 to cargo			
	membrane proteins during the initial stages of endocytosis. Preferentially, may phosphorylate			
	substrates on threonine residues. Regulates phosphorylation of other AP-2 subunits as well as			
	AP-2 localization and AP-2-mediated internalization of ligand complexes. Phosphorylates			
	NUMB and regulates its cellular localization, promoting NUMB localization to endosomes. Binds			
	to and stabilizes the activated form of NOTCH1, increases its localization in endosomes and			
	regulates its transcriptional activity. {ECO:0000250 UniProtKB:Q2M2I8}.			
Molecular Weight:	103.3 kDa			
UniProt:	Q3UHJ0			
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.			

Application Details

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)