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PASK Protein (AA 1-1383) (His tag)





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Overview

Quantity:	1 mg
Target:	PASK
Protein Characteristics:	AA 1-1383
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PASK protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:

MEDRGPPVFA EDWKCLSESP PVQEGPAAQA TFEPSKPLSI AHKHLSRKNG LSRLCQSRMA LSEDRWSSYC LSSLAAQNIC TSKLHCAAAP EYADPTAGPL GSTSCCSLLR GLASGCSGSL LSTPVCNPNK AVFTVDAKTT EILVANDKAC SLLGYSSHDL IGQKLAQFFL KSDSEVVEAL SEEHVEADGH AAVVFGTVVD IVSRIGEKIP VSVWIKRLQQ DRGLCCVVVL EPVERVSAWV AFQSDGTITS CDSLFAHLHG FTSPKDVVGQ CVIDLIPSMQ LPPPGQHIPK SLKIQRSVGR ARDGTTFPLS LKLKSKPSGR AVADSEAASE PGYQASVWVF CTISGLITLL PDGTIYGVNH SFALMLFGYG KTELLGKNIT FLIPGFYHYM DLTYDSSVQL PDLVNCLDIG RKSGPGEMNS DAQHNWELAS GAQGPRIDVV LARDHMPSQD ETLKLVGGQV SSRTQTRLET GYKILPSSAC QPSLGVDSNP EDGEQSLLTD QQSIPKRNLP AHGGQNQLDT SEISLPVLKE HLLSEIQKNI SEESPLTHRK WLSKVQQNPT KGSLPIHEEQ LLFAGQHIHV LGKEDPSAAE SYRESLLEES KSKPVDAKLF ASCEDSEPLV SVKDRGSSVD TCNLHQEAQL ELMGVSSPNP WADATMPEPH TTGQIAGGSL TYCPQYRSEW ASQQRGQDSA PSPSGMACVL LGTPTLDEPW PGVRNDREEL

QTCLIKEQLS KSSCEGNLGI SRVELVPEEH PPFTAPVSFC DLGGRDLHAS RSGSSSACYA
LATDLPGVLE AVEAQEADVN SYSWNLKELF LKDQTDRTPS HCSCTTSELS EAPSLSVVGS
DLDVGILHRQ TSDILVDREM LLLTGTYFDL SEGQRFQEMG AGHDRAELSN ISLVSSEHYE
TSDIESPGCD PPLPDPGPND MCLSAEKPRP SAQITSTPVA RGATSLQQEI QEGIYSGSCY
HRDGLQLSIQ FEVKRVELQG SATLFCCWLV KDLFHSHRDS ATRTRLFLAS LPSSTHSMPE
LSGSSFGEVL RAKPWFEESP TPAELEGLAA CEGEYDYKYN TISPLGSGAF GFVWTAVEKE
CNKEVVVKFI KKEKVLEDCW IEDPKLGRVT LEIAILSKVD HANIIKVLDI FENQEFFQLV
MEKHGSGMDL FAFIDHHPCL DEPLASFIFR QLVSAVGYLH SQGIIHRDIK DENIVIAEDF
TIKLIDFGSA AYLERGKLFY TFCGTIEYCA PEVLIGNPYR GPELEMWSLG VTLYTLIFEE
NPFCEVEETM EAVIHPPFLV SQELMSLLSG LLQPCPEQRT TLEKLIRDPW VTQPVNLASY
TWEEVCRTNQ PESGLLSAAS LEIGSRSPSE MAQREGLCGP PAPRETRGDQ HCLHLKDPSL PVS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- · Made in Germany from design to production by highly experienced protein experts.
- Mouse Pask Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. 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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

Product Details 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. 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: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Sterility: 0.22 µm filtered Endotoxin Level: Protein is endotoxin free. Grade: Crystallography grade **Target Details PASK** Target: Alternative Name: Pask (PASK Products) Background: Serine/threonine-protein kinase involved in energy homeostasis and protein translation. Phosphorylates EEF1A1, GYS1, PDX1 and RPS6. Probably plays a role under changing environmental conditions (oxygen, glucose, nutrition), rather than under standard conditions. Acts as a sensor involved in energy homeostasis: regulates glycogen synthase synthesis by mediating phosphorylation of GYS1, leading to GYS1 inactivation. May be involved in glucosestimulated insulin production in pancreas and regulation of glucagon secretion by glucose in

alpha cells, however such data require additional evidences. May play a role in regulation of protein translation by phosphorylating EEF1A1, leading to increase translation efficiency. May also participate to respiratory regulation. {ECO:0000269|PubMed:15148392, ECO:0000269|PubMed:17878307, ECO:0000269|PubMed:18509100, ECO:0000269|PubMed:21181396}.

Molecular Weight: 152.2 kDa Including tag.

UniProt: O8CEE6

Pathways: Regulation of Carbohydrate Metabolic Process

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 gurantee

Application Details

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	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)
Imagas	

Images

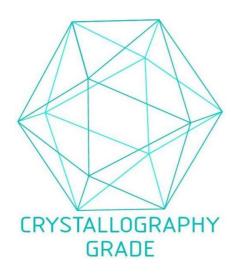


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process