Datasheet for ABIN3095574

SKP2 Protein (AA 1-424) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	SKP2
Protein Characteristics:	AA 1-424
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SKP2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MHRKHLQEIP DLSSNVATSF TWGWDSSKTS ELLSGMGVSA LEKEEPDSEN IPQELLSNLG HPESPPRKRL KSKGSDKDFV IVRRPKLNRE NFPGVSWDSL PDELLLGIFS CLCLPELLKV SGVCKRWYRL ASDESLWQTL DLTGKNLHPD VTGRLLSQGV IAFRCPRSFM DQPLAEHFSP FRVQHMDLSN SVIEVSTLHG ILSQCSKLQN LSLEGLRLSD PIVNTLAKNS NLVRLNLSGC SGFSEFALQT LLSSCSRLDE LNLSWCFDFT EKHVQVAVAH VSETITQLNL SGYRKNLQKS DLSTLVRRCP NLVHLDLSDS VMLKNDCFQE FFQLNYLQHL SLSRCYDIIP ETLLELGEIP TLKTLQVFGI VPDGTLQLLK EALPHLQINC SHFTTIARPT IGNKKNQEIW GIKCRLTLQK PSCL **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. • Human SKP2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

Product Details

	• 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: 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

Target:	SKP2
Alternative Name:	SKP2 (SKP2 Products)

Target Details

Background:	Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. Degradation of CDKN1B/p27kip also requires CKS1. Recognizes target proteins ORC1, CDT1, RBL2, KMT2A/MLL1, CDK9, RAG2, FOXO1, UBP43, and probably MYC, TOB1 and TAL1. Degradation of TAL1 also requires STUB1. Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2. Promotes ubiquitination and destruction of CDH1 in a CK1-Dependent Manner, thereby regulating cell migration. {ECO:0000269|PubMed:11931757, ECO:0000269|PubMed:12435635, ECO:0000269|PubMed:12769844, ECO:0000269|PubMed:12840033, ECO:0000269|PubMed:15342634, ECO:0000269|PubMed:15668399, ECO:0000269|PubMed:15949444, ECO:0000269|PubMed:16103164, ECO:0000269|PubMed:16262255, ECO:0000269|PubMed:16581786, ECO:0000269|PubMed:16951159, ECO:0000269|PubMed:17908926, ECO:0000269|PubMed:17962192, ECO:0000269|PubMed:22770219}.
Molecular Weight:	48.7 kDa Including tag.
UniProt:	Q13309
Pathways:	Mitotic G1-G1/S Phases

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 though.
Comment:	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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

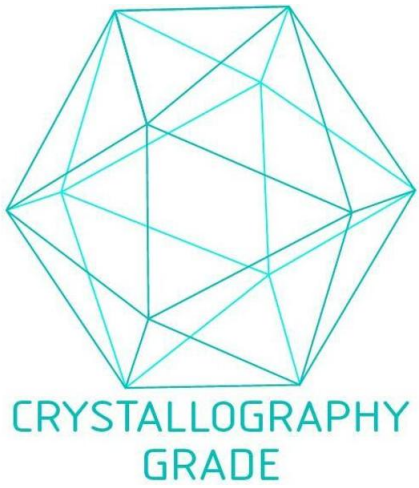

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process