Datasheet for ABIN3093121

IRS2 Protein (AA 1-1338) (Strep Tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	IRS2
Protein Characteristics:	AA 1-1338
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IRS2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MASPPRHGPP GPASGDGPNL NNNNNNNNHS VRKCGYLRKQ KHGHKRFFVL RGPGAGGDEA TAGGGSAPQP PRLEYYESEK KWRSKAGAPK RVIALDCCLN INKRADAKHK YLIALYTKDE YFAVAAENEQ EQEGWYRALT DLVSEGRAAA GDAPPAAAPA ASCSASLPGA LGGSAGAAGA EDSYGLVAPA TAAYREVWQV NLKPKGLGQS KNLTGVYRLC LSARTIGFVK LNCEQPSVTL QLMNIRRCGH SDSFFFIEVG RSAVTGPGEL WMQADDSVVA QNIHETILEA MKALKELFEF RPRSKSQSSG SSATHPISVP GARRHHHLVN LPPSQTGLVR RSRTDSLAAT PPAAKCSSCR VRTASEGDGG AAAGAAAAGA RPVSVAGSPL SPGPVRAPLS RSHTLSGGCG GRGSKVALLP AGGALQHSRS MSMPVAHSPP AATSPGSLSS SSGHGSGSYP PPPGPHPPLP HPLHHGPGQR PSSGSASASG SPSDPGFMSL DEYGSSPGDL RAFCSHRSNT PESIAETPPA RDGGGGGEFY GYMTMDRPLS HCGRSYRRVS GDAAQDLDRG LRKRTYSLTT PARQRPVPQP SSASLDEYTL MRATFSGSAG RLCPSCPASS PKVAYHPYPE DYGDIEIGSH RSSSSNLGAD DGYMPMTPGA ALAGSGSGSC RSDDYMPMSP ASVSAPKQIL QPRAAAAAAA AVPSAGPAGP APTSAAGRTF

Copyright antibodies-online. All rights reserved.

PASGGGYKAS SPAESSPEDS GYMRMWCGSK LSMEHADGKL LPNGDYLNVS PSDAVTTGTP PDFFSAALHP GGEPLRGVPG CCYSSLPRSY KAPYTCGGDS DQYVLMSSPV GRILEEERLE PQATPGPSQA ASAFGAGPTQ PPHPVVPSPV RPSGGRPEGF LGQRGRAVRP TRLSLEGLPS LPSMHEYPLP PEPKSPGEYI NIDFGEPGAR LSPPAPPLLA SAASSSSLLS ASSPASSLGS GTPGTSSDSR QRSPLSDYMN LDFSSPKSPK PGAPSGHPVG SLDGLLSPEA SSPYPPLPPR PSASPSSSLQ PPPPPPAPGE LYRLPPASAV ATAQGPGAAS SLSSDTGDNG DYTEMAFGVA ATPPQPIAAP PKPEAARVAS PTSGVKRLSL MEQVSGVEAF LQASQPPDPH RGAKVIRADP QGGRRRHSSE TFSSTTTVTP VSPSFAHNPK RHNSASVENV SLRKSSEGGV GVGPGGGDEP PTSPRQLQPA PPLAPQGRPW TPGQPGGLVG CPGSGGSPMR RETSAGFQNG LNYIAIDVRE EPGLPPQPQP PPPPLPQPGD KSSWGRTRSL GGLISAVGVG STGGGCGGPG PGALPPANTY ASIDFLSHHL KEATIVKE

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 post-translational 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

Product Details

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. 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:	>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)

Target Details

Target:	IRS2
Alternative Name:	IRS2 (IRS2 Products)
Background:	Insulin receptor substrate 2 (IRS-2),FUNCTION: May mediate the control of various cellular processes by insulin.
Molecular Weight:	137.3 kDa
UniProt:	Q9Y4H2
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Positive Regulation of Peptide Hormone Secretion, Response to Growth Hormone Stimulus, Carbohydrate Homeostasis, 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

Application Details

	guarantee though.
Comment:	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 post-translational 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!
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)

Copyright antibodies-online. All rights reserved.