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Datasheet for ABIN3133871 IRS1 Protein (AA 1-1233) (His tag)

Image



Overview

Quantity:	1 mg
Target:	IRS1
Protein Characteristics:	AA 1-1233
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IRS1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MASPPDTDGF SDVRKVGYLR KPKSMHKRFF VLRAASEAGG PARLEYYENE KKWRHKSSAP
	KRSIPLESCF NINKRADSKN KHLVALYTRD EHFAIAADSE AEQDSWYQAL LQLHNRAKAH
	HDGAGGGCGG SCSGSSGVGE AGEDLSYDTG PGPAFKEVWQ VILKPKGLGQ TKNLIGIYRL
	CLTSKTISFV KLNSEAAAVV LQLMNIRRCG HSENFFFIEV GRSAVTGPGE FWMQVDDSVV
	AQNMHETILE AMRAMSDEFR PRSKSQSSSS CSNPISVPLR RHHLNNPPPS QVGLTRRSRT
	ESITATSPAS MVGGKPGSFR VRASSDGEGT MSRPASVDGS PVSPSTNRTH AHRHRGSSRL
	HPPLNHSRSI PMPSSRCSPS ATSPVSLSSS STSGHGSTSD CLFPRRSSAS VSGSPSDGGF
	ISSDEYGSSP CDFRSSFRSV TPDSLGHTPP ARGEEELSNY ICMGGKGAST LAAPNGHYIL
	SRGGNGHRYI PGANLGTSPA LPGDEAAGAA DLDNRFRKRT HSAGTSPTIS HQKTPSQSSV
	ASIEEYTEMM PAAYPPGGGS GGRLPGYRHS AFVPTHSYPE EGLEMHHLER RGGHHRPDTS
	NLHTDDGYMP MSPGVAPVPS NRKGNGDYMP MSPKSVSAPQ QIINPIRRHP QRVDPNGYMM
	MSPSGSCSPD IGGGSSSSSS ISAAPSGSSY GKPWTNGVGG HHTHALPHAK PPVESGGGKL

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	LPCTGDYMNM SPVGDSNTSS PSECYYGPED PQHKPVLSYY SLPRSFKHTQ RPGEPEEGAR
	HQHLRLSSSS GRLRYTATAE DSSSSTSSDS LGGGYCGARP ESSLTHPHHH VLQPHLPRKV
	DTAAQTNSRL ARPTRLSLGD PKASTLPRVR EQQQQQSSL HPPEPKSPGE YVNIEFGSGQ
	PGYLAGPATS RSSPSVRCPP QLHPAPREET GSEEYMNMDL GPGRRATWQE SGGVELGRIG
	PAPPGSATVC RPTRSVPNSR GDYMTMQIGC PRQSYVDTSP VAPVSYADMR TGIAAEKASL
	PRPTGAAPPP SSTASSSASV TPQGATAEQA THSSLLGGPQ GPGGMSAFTR VNLSPNHNQS
	AKVIRADTQG CRRRHSSETF SAPTRAGNTV PFGAGAAVGG SGGGGGGGSE DVKRHSSASF
	ENVWLRPGDL GGVSKESAPV CGAAGGLEKS LNYIDLDLAK EHSQDCPSQQ QSLPPPPPHQ
	PLGSNEGNSP RRSSEDLSNY ASISFQKQPE DRQ
	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 Irs1 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:
	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

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 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:	IRS1
Alternative Name:	Irs1 (IRS1 Products)
Background:	May mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to the regulatory p85 subunit (By similarity). {ECO:0000250}.
Molecular Weight:	131.7 kDa Including tag.
UniProt:	P35569
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Positive Regulation of Peptide Hormone Secretion, Hormone Transport, Negative Regulation of 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 gurantee 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.

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Application Details

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)

Images



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