

Datasheet for ABIN7554213
IRS1 Protein (AA 1-1242) (His tag)



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Overview

Quantity:	1 mg
Target:	IRS1
Protein Characteristics:	AA 1-1242
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IRS1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat IRS1 Protein expressed in mammalien cells.
Sequence:	<p>MASPPESDGF SDVRKVGYLKPKSMHKRFF VLRAASEAGG PARLEYEENE KKWRHKSSAP KRSIPLESCF NINKRADSKN KHLVALYTRD EHFAIAADSE AEQDSWYQAL LQLHNRAKGH HDGAAALGAG GGGGSCSGSS GLGEAGEDLS YGDVPPGPAF KEVWQVILKP KGLGQTKNLI GIYRLCLTSK TISFVKLNSE AAIVLQLMN IRRCGHSENF FFIEVGRSAV TGPGEFWMQV DDSVVAQNMH ETILEAMRAM SDEFRPRSKS QSSSNCSNPI SVPLRRHHLN NPPPSQVGLT RRSRTESITA TSPASMVGGK PGSFRVRASS DGEGETMSRPA SVDGSPVSPS TNRTHAHRHR GSARLHPPLN HRSIPMPAS RCSPSATSPV SLSSSSTSGH GSTSDCLFPR RSSASVSGSP SDGGFISSDE YGSSPCDFRS SFRSVTPDSL GHTPPARGEE ELSNYICMGG KGPSTLTAPN GHYILSRGGN GHRCTPGTGL GTSPALAGDE AASAADLDNR FRKRTHSAGT SPTITHQKTP SQSSVASIEE YTEMMPAYPP GGGSGGRLPG HRHSAFVPTR SYPEEGLEMH PLERRGGHHR PDSSTLHTDD GYMPMSPGVA PVPSGRKGGG DYMPMSPKSV SAPQIINPI RRHPQRVDPN</p>

GYMMMSPSGG CSPDIGGGPS SSSSSNAVP SGTSYGKLTW NGVGGHSHV LPHPKPPVES
SGGKLLPCTG DYMNMSPVGD SNTSSPSDCY YGPEDPQHKP VLSYYSLPRS FKHTQRPGEF
EEGARHQHLR LSTSSGRLLY AATADDSSSS TSSDSLGGGY CGARLEPSLP HPHHQVLQPH
LPRKVDTAAQ TNSRLARPTR LSLGDPKAST LPRAREQQQQ QQPLLHPPEP KSPGEYVNIE
FGSDQSGYLS GPVAFHSSPS VRCPSQLQPA PREEETGTEE YMKMDLGPGR RAAWQESTGV
EMGRLGPAPP GAASICRPTR AVPSSRGDYM TMQMSPCRQS YVDTSPAAPV SYADMRTGIA
AEEVSLPRAT MAAASSSSAA SASPTGPQGA AELAAHSSL GGPQGGGMS AFTRVNLSPN
RNQSAKVIRA DPQGCRRRHS SETFSSTPSA TRVGNTVPFG AGAAVGGGGG SSSSEEDVKR
HSSASFENVW LRPGELGGAP KEPAKLCGAA GLEENGLNYI DLDLVKDFKQ CPQECTPEPQ
PPPPPPHQP LGSGESSSTR RSEEDLSAYA SISFQKQPED RQ **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

IRS1

Alternative Name:

IRS1 ([IRS1 Products](#))

Target Details

Background: Insulin receptor substrate 1 (IRS-1),FUNCTION: 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, ECO:0000269|PubMed:16878150}.

Molecular Weight: 131.6 kDa

UniProt: [P35568](#)

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 guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months