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Datasheet for ABIN7554194

IRS4 Protein (AA 1-1257) (His tag)

Overview

Quantity:	1 mg
Target:	IRS4
Protein Characteristics:	AA 1-1257
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IRS4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat IRS4 Protein expressed in mammalien cells.
Sequence:	MASCSFTRDQ ATRLRGAAA AAAAALAAVV TTPLLSSGTP TALIGTGSSC PGAMWLSTAT GSRSDSESEE EDLPVGEEVC KRGYLRKQKH GHRRYFVLKL ETADAPARLE YYENARKFRH SVRAAAAAAA AAASGAaipP LIPPRRVITL YQCFSVSQRA DARYRHIAL FTQDEYFAMV AENESEQESW YLLLSRLILE SKRRRCGTLG AQPDGEPAAL AAAAAAEPPF YKDVWQVIVK PRGLGHRKEL SGVFRLCLTD EEVVFVRLNT EVASVVVQLL SIRRCGHSEQ YFFLEVGRST VIGPGELWMQ VDDCVVAQNM HELFLEKMRA LCADEYRARC RSYISIGAH LLTLLSARRH LGLVPLEPGG WLRRSRFEQF CHLRAIGDGE DEMLFTRRFV TPSEPVAHSR RGRLHLPRGR RSRRAVSVPA SFFRRLAPSP ARPRHPAEAP NNGARLSSEV SGSGSGNFGE EGNPQGKEDQ EGSGGDYMPM NNWGSNGNRG SGGGQGSNGQ GSSHSSSGN QCSGEGQGSR GGQGSNGQGS GGNQCSRdGQ GTAGGHGSGG GQRPGGGHGS GGGQGPdGH GSGGGKNSSG GKSGSGKGKS DGDGERGKSL KKRSYFGKLT QSKQQQMPPP Pppppppppa GGTGGKgKSG GRFRlyFCVD

RGATKECKEA KEVKDAEIP E GAARGPHRAR AFDEDEDDPY VPMRPGVATP LVSSSDYMPM
APQNVASASKK RHSRSPFEDS RGYMMMFP RV SPPPAPSPPK APDTNKEDDS KDNDSESDYM
FMAPGAGAIP KNPRNPQGG SSKSWSSYFS LPNPFRSSPL GQNDNSEYVP MLPGKFLGRG
LDKEVSYNWD PKDAASKPSG EGSFSKPGDG GSPSKPSDHE PPKNKAKRPN RLSFITKGYK
IKPKPQKPTH EQREADSSSD YVNMDFTKRE SNTAPSTQG LPDSWGIIAE PRQSAFSNYV
NVEFGVPFPN PANDLSDLLR AIPRANPLSL DSARWLPPL PLSATGSNAI EEGDYIEVI
FNSAMTPAMA LADSAIRYDA ETGRIYVVD P FSECCMDISL SPSRCSEPPP VARLLQEEEQ
ERRRPQSR SQ SFFAAARA AV SAFPTDSL R DLSPSSAPAV ASAAEPTLAL SQVVAASAL
AAPGIGAAA AAAGFDSASA RWFQPVANAA DAEAVRGAQD VAGGSNPGAH NPSANLARGD
NQAGGAAAAA AAPEPPPRSR RVPRPPERED SDNDDDT HVR MDFARRDNQF DSPKRGR

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:

IRS4

Alternative Name:

IRS4 ([IRS4 Products](#))

Target Details

Background: Insulin receptor substrate 4 (IRS-4) (160 kDa phosphotyrosine protein) (py160) (Phosphoprotein of 160 kDa) (pp160),FUNCTION: Acts as an interface between multiple growth factor receptors possessing tyrosine kinase activity, such as insulin receptor, IGF1R and FGFR1, and a complex network of intracellular signaling molecules containing SH2 domains. Involved in the IGF1R mitogenic signaling pathway. Promotes the AKT1 signaling pathway and BAD phosphorylation during insulin stimulation without activation of RPS6KB1 or the inhibition of apoptosis. Interaction with GRB2 enhances insulin-stimulated mitogen-activated protein kinase activity. May be involved in nonreceptor tyrosine kinase signaling in myoblasts. Plays a pivotal role in the proliferation/differentiation of hepatoblastoma cell through EPHB2 activation upon IGF1 stimulation. May play a role in the signal transduction in response to insulin and to a lesser extent in response to IL4 and GH on mitogenesis. Plays a role in growth, reproduction and glucose homeostasis. May act as negative regulators of the IGF1 signaling pathway by suppressing the function of IRS1 and IRS2. {ECO:0000269|PubMed:10531310, ECO:0000269|PubMed:10594015, ECO:0000269|PubMed:12639902, ECO:0000269|PubMed:17408801, ECO:0000269|PubMed:9553137}.

Molecular Weight: 133.8 kDa

UniProt: [O14654](#)

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