

Datasheet for ABIN7554056
GRB10 Protein (AA 1-594) (His tag)



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Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | GRB10 |
| Protein Characteristics: | AA 1-594 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This GRB10 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

| | |
|-----------|---|
| Purpose: | Custom-made recombinat GRB10 Protein expressed in mammalian cells. |
| Sequence: | <p>MALAGCPDSF LHHPPYQDKV EQTPRSQQDP AGPGLPAQSD RLANHQEDDV DLEALVNDMN ASLESLYSAC SMQSDTVPLL QNGQHARSQP RASGPPRSIQ PQVSPRQRVQ RSQPVHILAV RRLQEEDQQF RTSSLPAIPN PFPELCGPGS PPVLTGSLP PSQAAAKQDV KVFSEDGTSK VVEILADMTA RDLCQLLVYK SHCVDDNSWT LVEHHPHLGL ERCLEDHELV VQVESTMASE SKFLFRKNYA KYEFFKNPMN FFPEQMVTWC QQSNGSQTQL LQNFLNSSSC PEIQGFLHVK ELGKKS WKKL YVCLRRSGLY CSTKGTSKPEP RHLQLLADLE DSNIFSLIAG RKQYNAPTDH GLCIKPNKVR NETKELRLLC AEDEQTRTCW MTAFRLLKYG MLLYQNYRIP QQRKALLSPF STPVRVSEN SLVAMDFSGQ TGRVIENPAE AQSAALEEGH AWRKRSTRMN ILGSQSPLHP STLSTVIHRT QHWFHGRISR EESHRIKQQ GLVDGLFLLR DSQSNPKAFV LTLCHHQKIK NFQILPCEDD GQTFSLDDG NTKFSDLIQL VDFYQLNKGV LPCKLKHHC I RVAL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression</p> |

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:

GRB10

Alternative Name:

GRB10 ([GRB10 Products](#))

Background:

Growth factor receptor-bound protein 10 (GRB10 adapter protein) (Insulin receptor-binding protein Grb-IR),FUNCTION: Adapter protein which modulates coupling of a number of cell surface receptor kinases with specific signaling pathways. Binds to, and suppress signals from, activated receptors tyrosine kinases, including the insulin (INSR) and insulin-like growth factor (IGF1R) receptors. The inhibitory effect can be achieved by 2 mechanisms: interference with the signaling pathway and increased receptor degradation. Delays and reduces AKT1 phosphorylation in response to insulin stimulation. Blocks association between INSR and IRS1 and IRS2 and prevents insulin-stimulated IRS1 and IRS2 tyrosine phosphorylation. Recruits NEDD4 to IGF1R, leading to IGF1R ubiquitination, increased internalization and degradation by both the proteasomal and lysosomal pathways. May play a role in mediating insulin-stimulated ubiquitination of INSR, leading to proteasomal degradation. Negatively regulates Wnt signaling

Target Details

by interacting with LRP6 intracellular portion and interfering with the binding of AXIN1 to LRP6. Positive regulator of the KDR/VEGFR-2 signaling pathway. May inhibit NEDD4-mediated degradation of KDR/VEGFR-2. {ECO:0000269|PubMed:12493740, ECO:0000269|PubMed:15060076, ECO:0000269|PubMed:16434550, ECO:0000269|PubMed:17376403}.

Molecular Weight: 67.2 kDa

UniProt: [Q13322](#)

Pathways: [Regulation of Carbohydrate Metabolic Process](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#)

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