

Datasheet for ABIN7565173
AMFR Protein (AA 1-643) (His tag)



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Overview

Quantity:	1 mg
Target:	AMFR
Protein Characteristics:	AA 1-643
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AMFR protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Amfr Protein expressed in mammalien cells.
Sequence:	<p>MPLLFLERFP WPSLRITYTGL SGLALLGTIV SAYRALSQPE DSGGEPEPLT APLQPEALAP</p> <p>ARLTAGGPRA RDVAQYLLSD SLFVWVLVNT ACCVLMLVAK LIQCIVFGPL RVSERQHLKD</p> <p>KFWNFIFYKF IFIFGVNLVQ TVEEVVMWCL WFAGLVFLHL MVQLCKDRFE YLSFSPTTPM</p> <p>SSHGRVLSLL IAMLLSCCGL AVVCCVTGYT HGMHTLAFMA AESLLVTVRT AHVILRYVIH</p> <p>LWDLNHEGTW EGKGTYYVYT DFMELALLS LDLMHHIHML LFGNIWLSMA SLVIFMQLRY</p> <p>LFHEVQRRIR RHKNYLRVVG NMEARFAVAT PEELAVNND CAICWDSMQA ARKLPCGHLF</p> <p>HNSCLRSWLE QDTSCPTCRM SLNIADGSRA REDHQGENLD ENLVPVAAAE GRPRLNQHNH</p> <p>FFHFDGSRIA SWLPFSVEV MHTTNILGIT QASNSQLNAM AHQIQEMFPQ VPYHLVLQDL</p> <p>QMTRSVEITT DNILEGRIQV PFPTQRSDSL RPALNSPVER PSPDLEESEA SVQTERVPLD</p> <p>LSPRLEETLD FSEVELEPIE VEDFEARGSR FSKSADERQR MLVQRKDDLL QQARKRFLNK</p> <p>SSEDDGASER LLPSEGTSDD PVTLRRRMLA AAAERRLQRQ RTT Sequence without tag. The</p>

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:

AMFR

Alternative Name:

Amfr ([AMFR Products](#))

Background:

E3 ubiquitin-protein ligase AMFR (EC 2.3.2.36) (Autocrine motility factor receptor) (AMF receptor) (RING-type E3 ubiquitin transferase AMFR), FUNCTION: E3 ubiquitin-protein ligase that mediates the polyubiquitination of lysine and cysteine residues on target proteins, such as CD3D, CYP3A4, CFTR, INSIG1, SOAT2/ACAT2 and APOB for proteasomal degradation (PubMed:16987818, PubMed:18216283). Component of a VCP/p97-AMFR/gp78 complex that participates in the final step of endoplasmic reticulum-associated degradation (ERAD) (PubMed:16987818, PubMed:18216283). The VCP/p97-AMFR/gp78 complex is involved in the sterol-accelerated ERAD degradation of HMGCR through binding to the HMGCR-INSIG1 complex at the ER membrane (PubMed:22863805). In addition, interaction of AMFR with AUP1 facilitates interaction of AMFR with ubiquitin-conjugating enzyme UBE2G2 and ubiquitin ligase

Target Details

RNF139, leading to sterol-induced HMGCR ubiquitination (By similarity). The ubiquitinated HMGCR is then released from the ER by the complex into the cytosol for subsequent destruction (By similarity). In addition to ubiquitination on lysine residues, catalyzes ubiquitination on cysteine residues: together with INSIG1, mediates polyubiquitination of SOAT2/ACAT2 at 'Cys-277', leading to its degradation when the lipid levels are low (By similarity). Catalyzes ubiquitination and subsequent degradation of INSIG1 when cells are depleted of sterols (By similarity). Mediates polyubiquitination of INSIG2 at 'Cys-215' in some tissues, leading to its degradation (By similarity). Also regulates ERAD through the ubiquitination of UBL4A a component of the BAG6/BAT3 complex (By similarity). Also acts as a scaffold protein to assemble a complex that couples ubiquitination, retranslocation and deglycosylation (By similarity). Mediates tumor invasion and metastasis as a receptor for the GPI/autocrine motility factor (PubMed:12650607). In association with LMBR1L and UBAC2, negatively regulates the canonical Wnt signaling pathway in the lymphocytes by promoting the ubiquitin-mediated degradation of CTNNB1 and Wnt receptors FZD6 and LRP6 (PubMed:31073040). Regulates NF-kappa-B and MAPK signaling pathways by mediating 'Lys-27'-linked polyubiquitination of TAB3 and promoting subsequent TAK1/MAP3K7 activation (By similarity). {ECO:0000250|UniProtKB:Q9UKV5, ECO:0000269|PubMed:12650607, ECO:0000269|PubMed:16987818, ECO:0000269|PubMed:18216283, ECO:0000269|PubMed:22863805, ECO:0000269|PubMed:31073040}.

Molecular Weight: 73.1 kDa

UniProt: [Q9R049](#)

Pathways: [ER-Nucleus Signaling](#)

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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months