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Datasheet for ABIN7555172 **RHBDD1 Protein (AA 1-315) (His tag)**

Overview

Quantity:	1 mg
Target:	RHBDD1
Protein Characteristics:	AA 1-315
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RHBDD1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RHBDD1 Protein expressed in mammalian cells.
Sequence:	<p>MQRRSRGINT GLILLLSQIF HVGINNIPPV TLATLALNIW FFLNPQKPLY SSCLSVEKCY QQKDWQRLLL SPLHHADDWH LYFNMASMLW KGINLERRLG SRWFAYVITA FSVLTGVVYL LLQFAVAEFM DEPDKRSCA VGFSGVLFAL KVLNNHYCPG GFVNILGFPV PNRFACWVEL VAIHLFSPGT SFAGHLA GIL VGLMYTQGPL KKIMEACAGG FSSSVGY PGR QYYFNSSGSS GYQDYYPHGR PDHYEEAPRN YDTYTAGLSE EEQLERALQA SLWDRGNTRN SPPPYGFHLS PEEMRRQRLH RFDSQ 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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	RHBDD1
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Alternative Name:	RHBDD1 (RHBDD1 Products)
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Background:	Rhomboid-related protein 4 (RRP4) (EC 3.4.21.105) (Rhomboid domain-containing protein 1) (Rhomboid-like protein 4),FUNCTION: Intramembrane-cleaving serine protease that cleaves single transmembrane or multi-pass membrane proteins in the hydrophobic plane of the membrane, luminal loops and juxtamembrane regions. Involved in regulated intramembrane proteolysis and the subsequent release of functional polypeptides from their membrane anchors. Functional component of endoplasmic reticulum-associated degradation (ERAD) for misfolded membrane proteins. Required for the degradation process of some specific misfolded endoplasmic reticulum (ER) luminal proteins. Participates in the transfer of misfolded proteins from the ER to the cytosol, where they are destroyed by the proteasome in a ubiquitin-dependent manner. Functions in BIK, MPZ, PKD1, PTCRA, RHO, STEAP3 and TRAC processing. Involved in the regulation of exosomal secretion, inhibits the TSAP6-mediated secretion pathway. Involved in the regulation of apoptosis, modulates BIK-mediated apoptotic activity. Also plays a role in the regulation of spermatogenesis, inhibits apoptotic activity in spermatogonia. {ECO:0000269 PubMed:18953687, ECO:0000269 PubMed:22624035}.
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Target Details

Molecular Weight: 35.8 kDa

UniProt: [Q8TEB9](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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