Datasheet for ABIN7555935

# UBD Protein (AA 1-165) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | UBD |
| Protein Characteristics: | AA 1-165 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This UBD protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant UBD Protein expressed in mammalian cells. |
| Sequence: | MAPNASCLCV HVRSEEWDLM TFDANPYDSV KKIKEHVRSK TKVPVQDQVL LLGSKILKPR RSLSSYGIDK EKTIHLTLKV VKPSDEELPL FLVESGDEAK RHLLQVRRSS SVAQVKAMIE TKTGIIPETQ IVTCNGKRLE DGKMMADYGI RKGNLLFLAC YCIGG **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.** |
| 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:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and |

## Product Details

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| | transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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) |
| Grade: | custom-made |

## Target Details

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| Target: | UBD |
| Alternative Name: | UBD (UBD Products) |
| Background: | Ubiquitin D (Diubiquitin) (Ubiquitin-like protein FAT10),FUNCTION: Ubiquitin-like protein modifier which can be covalently attached to target protein and subsequently leads to their degradation by the 26S proteasome, in a NUB1-dependent manner. Probably functions as a survival factor. Conjugation ability activated by UBA6. Promotes the expression of the proteasome subunit beta type-9 (PSMB9/LMP2). Regulates TNF-alpha-induced and LPS-mediated activation of the central mediator of innate immunity NF-kappa-B by promoting TNF-alpha-mediated proteasomal degradation of ubiquitinated-I-kappa-B-alpha. Required for TNF-alpha-induced p65 nuclear translocation in renal tubular epithelial cells (RTECs). May be involved in dendritic cell (DC) maturation, the process by which immature dendritic cells differentiate into fully competent antigen-presenting cells that initiate T-cell responses. Mediates mitotic non-disjunction and chromosome instability, in long-term in vitro culture and cancers, by abbreviating mitotic phase and impairing the kinetochore localization of MAD2L1 during the prometaphase stage of the cell cycle. May be involved in the formation of aggresomes when proteasome is saturated or impaired. Mediates apoptosis in a caspase-dependent manner, especially in renal epithelium and tubular cells during renal diseases such as polycystic kidney disease and Human immunodeficiency virus (HIV)-associated nephropathy (HIVAN). {ECO:0000269\|PubMed:15831455, ECO:0000269\|PubMed:16495226, |

## Target Details

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| | ECO:0000269\|PubMed:16495380, ECO:0000269\|PubMed:17889673, ECO:0000269\|PubMed:18574467, ECO:0000269\|PubMed:19028597, ECO:0000269\|PubMed:19033385, ECO:0000269\|PubMed:19166848, ECO:0000269\|PubMed:19726511, ECO:0000269\|PubMed:19959714}. |
| Molecular Weight: | 18.5 kDa |
| UniProt: | O15205 |
| Pathways: | Ubiquitin Proteasome Pathway |

## Application Details

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| 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

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| 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 |