Recombinant human Otubain-1/OTUB1 protein

Catalog Number: ATGP0354

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-271aa

UniProt No.
Q96FW1

NCBI Accession No.
NP_060140

Alternative Names
ubiquitin thioesterase Otubain 1, OTB1, OTu1, ubiquitin thioesterase Otubain 1 Deubiquitinating enzyme OTuB1, OTu domain containing ubiquitin aldehyde binding protein 1, Otubain 1, ubiquitin specific processing protease OTuB1, ubiquitin thioesterase OTuB1

PRODUCT SPECIFICATION

Molecular Weight
33.4 kDa (291aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Otubain 1, also known as OTuB1, is a member of the OuT (ovarian tumor) superfamily of predicted cysteine proteases and inhibits cytokine gene transcription in the immune system via its interaction with a ubiquitin protease and E3 ubiquitin ligase. This protein is a highly specific ubiquitin iso-peptidase, and cleaves ubiquitin from branched poly-ubiquitin chains but not from ubiquitinated substrates. It is proposed to function in specific

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ubiquitin-dependent pathways, possibly by providing an editing function of polyubiquitin chain growth. Recombinant OTuB1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

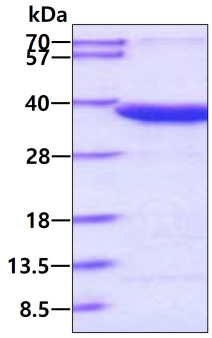
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General References

Balakirev MY., et al. (2003) EMBO Rep. 4(5):517-22.
Soares L., et al. (2004) Nat Immunol. 5(1):45-54.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.