

Recombinant human UBA5 protein

Catalog Number: ATGP1507

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-404aa

UniProt No.

Q9GZZ9

NCBI Accession No.

NP_079094

Alternative Names

Ubiquitin-like modifier-activating enzyme 5, THIFP1, uBE1DC1, UFM1-activating enzyme, Ubiquitin-activating enzyme E1 domain-containing protein 1

PRODUCT SPECIFICATION

Molecular Weight

47.4 kDa (428aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM NaCl

Purity

> 90% 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

uBA5 (ubiquitin-like modifier activating enzyme 5) belongs to the ubiquitin-activating E1 family and uBA5 subfamily. ubiquitin and ubiquitin-like proteins are known to be covalently conjugated to a variety of cellular substrates via a three-step enzymatic pathway. The ubiquitin-activating enzyme (E1) plays a key role in the first step of ubiquitination pathway to activate ubiquitin or ubiquitin-like proteins. uBA5 had been proved to activate an ubiquitin-like protein, ubiquitin-fold modifier 1 (ufm1), by forming a high-energy thioester bond. It localizes

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mainly in cytoplasm, while it mainly localizes to the nucleus in presence of SuMO2. Recombinant human uBA5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MAESVE RLQQRVQELE RELAQERSLQ VPRSGDGGGG RVRIEKMSSE
VVDSNPYSRL MALKRMGIVS DYKIRTFVAV AIVGVGGVGS VTAEMLTRCG IGKLLLFDYD KVELANMNRL FFQPHQAGLS
KVQAAEHLR NINPDVLFV HNYNITTVEN FQHFMDRISN GGLEEGKPDV LVLSCVDNFE ARMTINTACN ELGQTMESG
VSENAVSGHI QLIIPGESAC FACAPPLVVA ANIDEKTLKR EGVCAASLPT TMGVVAGILV QNVLKLLNF GTVSFYLGYN
AMQDFPTMS MKPNPQCDDR NCRKQEEYK KKVAALPKQE VIQEEEEIIH EDNEWGIELV SEVSEELKN FSGPVPDLPE
GITVAYTIK QQEDSVTELT VEDSGESLED LMAKMKNM

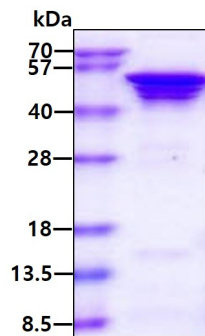
General References

Komatsu M., et al. (2004) EMBO J. 23:1977-1986

Zheng M., et al. (2008) J. Cell. Biochem. 104:2324-2334

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain