

Recombinant human SAE2/UBA2 protein

Catalog Number: ATGP3363

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-640aa

UniProt No.

Q9UBT2

NCBI Accession No.

NP_005490.1

Alternative Names

Ubiquitin like modifier activating enzyme 2, SUMO1 activating enzyme subunit 2, SUMO-activating enzyme subunit 2, Anthracycline-associated resistance ARX, Ubiquitin-like 1-activating enzyme E1B, Ubiquitin-like modifier-activating enzyme 2, Ubiquitin-activating enzyme E1 homolog, UBLE1B

PRODUCT SPECIFICATION

Molecular Weight

72.3 kDa (649aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

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

UBA2, also known as SUMO-activating enzyme subunit 2, is a family of small and related proteins that can be enzymatically attached to a target protein by a post-translational modification process termed sumoylation. It is

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conjugated to a variety of molecules in the presence of the SAE1/UBA2 SUMO-activating (E1) enzyme and the UBE2I/Ubc9 SUMO-conjugating (E2) enzyme. It may represent an important mechanism to protect neurons during episodes of cerebral ischemia. Recombinant human UBA2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

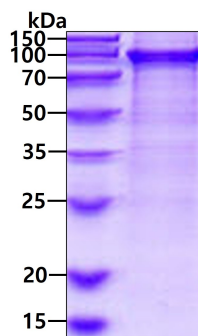
<ADL>MALSRL PRELAEAVAG GRVLVVGAGG IGCELLKNLV LTGFSHIDLI DLDTIDVSNL NRQFLFQKKH VGRSKAQVAK
ESVLQFYFKA NIVAYHDSIM NPDYNVEFFR QFILVMNALD NRAARNHVNR MCLAADVPLI ESGTAGYLGQ VTTIKKGVTE
CYECHKPTQ RTFPGCTIRN TPSEPIHCIV WAKYLFNQLF GEEDADQEVS PDRADPEAAW EPTEAEARAR ASNEDGDIKR
ISTKEWAKST GYDPVKLFTK LFKDDIRYLL TMDKLWRKRK PPVPLDWAEV QSQGEETNAS DQQNEPQLGL KDQQVLDVKS
YARLFSKSIE TLRVHLAEKG DGAELIWDKD DPSAMDFVTS AANLRMHIFS MNMKSFRDIK SMAGNIIPAI ATTNVIAGL
IVLEGLKILS GKIDQCRTIF LNKQPNPRKK LLVPCALDPP NPNCYVCASK PEVTVRLNVH KVTVLTLDQK IVKEKFAMVA
PDVQIEDGKG TILISSEEGE TEANNHKKLS EFGIRNGSRL QADDFLQDYT LLINILHSED LGKDVEFEVV GDAPEKVGPK
QAEDAASIT NGSDDGAQPS TSTAQEQDDV LIVDSDEEDS SNNADVSEEE RSRKRKLDEK ENLSAKRSRI EQKEELDDVI
ALD<HHHHHH>

General References

Gong L., et al. (1999) FEBS Lett. 448:185-189.
Tatham MH., et al. (2001) J Biol Chem. 276:35368-35374.

DATA

SDS-PAGE



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