

Product Data Sheet

Product Name: UBA2 Human
 Cat. No.: GP22340
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Ubiquitin Like Modifier Activating Enzyme 2; Ubiquitin-Like Modifier Activating Enzyme 2; Ubiquitin-Like Modifier-Activating Enzyme 2; Anthracycline-Associated Resistance ARX; Ubiquitin-Like 1-Activating Enzyme E1B; SUMO1 Activating Enzyme Subunit 2; SAE2; Ubiquitin-Activating Enzyme E1 Homolog (Yeast); UBA2; Ubiquitin-Activating Enzyme E1 Homolog; SUMO-1 Activating Enzyme Subunit 2; HRIHFB2115; EC 6.3.2.-; EC 6.3.2; UBLE1B; UBA2; ARX.

Amino Acid Sequence
 ADLMALSRGL PRELAEAVAG GRVLVVGAGG IGCELLKNLV LTGFSHIDLI
 DLDTIDVSNL NRQFLFQKKH VGRSKAQVAK ESVLQFYPKA 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 ATTNVAVIAGL
 IVLEGLKILS GKIDQCRTIF LNKQPNPRKK LLVPCALDPP NPNCYVCASK
 PEVTVRLNVH KVTVLTLDQK IVKEKFAMVA PDVQIEDGKG TILISSEEGE
 TEANNHKKLS EFGIRNGSRL QADDFLQDYT LLINILHSED LGKDVEFEVV
 GDAPEKVGPK QAEDAASIT NGSDDGAQPS TSTAQEQDDV LIVDSDEEDS
 SNNADVSEEE RSRKRKLDEK ENLSAKRSRI EQKEELDDVI ALDHHHHHH

Formulation UBA2 protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

SUMO-activating enzyme subunit 2 (UBA2) belongs to a family of small and related

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proteins which can be enzymatically attached to a target protein by a post-translational modification process termed sumoylation. UBA2 is conjugated to various molecules in the presence of the SAE1/UBA2 SUMO-activating(E1) enzyme and the UBE2I/Ubc9 SUMO-conjugating(E2) enzyme. UBA2 represents a vital mechanism to protect neurons during episodes of cerebral ischemia.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

UBA2 Human Recombinant produced in Sf9 Baculovirus cells is a single, non-glycosylated polypeptide chain containing 649 amino acids (1-640a.a) and having a molecular mass of 72.3kDa (Migrates at 70-100kDa on SDS-PAGE under reducing conditions). UBA2 is fused to a 6 amino acid His-tag at C-Terminus and purified by proprietary chromatographic techniques.

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