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SAE1 Human

Description:SAE1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 378 amino acids (1-346 a.a.) and having a molecular mass of 42.2 kDa. The SAE1 is fused to 32 amino acid T7-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #:ENPS-541

For research use only.

Synonyms:AOS1, HSPC140, SUA1, UBLE1A, SAE1, SUMO1 Activating Enzyme Subunit 1, FLJ3091.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MHHHHHHMAS MTGGQQMGRD LYDDDDKDRW GSMVEKEEAG GGISEEEAAQ YDRQIRLWGL EAQKRLRASR VLLVGLKGLG AEIAKNLILA GVKGLTMLDH EQVTPEDPGA QFLIRTGSVG RNRAEASLER AQNLNPMVDV KVDTEDIEKK PESFFTQFDA VCLTCCSRDV IVKVDQICHK NSIKFFTGDV FGYHGYTFAN LGEHEFVEEK TKVAKVSQGV EDGPDTKRAK LD

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
SAE1 Human solution containing 20mM Trsi pH-8, 1mM DTT & 10% glycerol.

Stability:
SAE1 Human althoµgh stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

Usage:
NeoBiolab's products are furnished forLABORATORY RESEARCHUSEONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
SAE1 is part of the ubiquitin-activating E1 family of proteins and participates in the significant first step of the UBL1 conjµgation pathway. Proteins conjµgated to Ub are marked for progressive degradation by the 26S Proteasome. SAE1 acts as a UBLI E1 ligase mediating the ATP-dependent activation of UBL1. SAE1 binds with UBLE1A and UBLE1B to form a heterodimer which can bind UBL1. SAE1 is a dimeric enzyme that takes part as a E1 ligase for SUMO1, SUMO2, SUMO3, and probably SUMO4. SAE1 regulates ATP-dependent activation of SUMO proteins and formation of a thioester with a conserved cysteine residue on SAE2.

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