

Recombinant human ASMT protein

Catalog Number: ATGP1789

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-298aa

UniProt No.

P46597

NCBI Accession No.

AAH01620

Alternative Names

Acetylserotonin O-methyltransferase, HIOMT, HIOMTY

PRODUCT SPECIFICATION

Molecular Weight

35.3 kDa (318aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

ASMT belongs to the methyltransferase superfamily and is involved in melatonin biosynthesis. Expressed in brain, retina and pineal gland, ASMT functions to catalyze the final reaction in the synthesis of melatonin, specifically the conversion of S-adenosyl-L-methionine and N-acetylserotonin to S-adenosyl-L-homocysteine and melatonin. Recombinant human ASMT protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH> MGSSSEDQAYR LLNDYANGFM VSQVLFAACE LGVFDLLAEA PGPLDVAAVA

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AGVRASAHGT ELLLDICVSL KLLKVETRGG KAFYRNTLS SDYLTTVSPT SQCSMLKYMG RTSYRCWGH LADAVREGRNQ
YLETFGVPAE ELFTAIYRSE GERLQFMQAL QEVWSVNGRS VLTAFDLSVF PLMCDLGGDF FKDPLPEADL YILARVLHDW
ADGKCSHLL ERIYHTCKPGG GILVIESLLD EDRRGPLLQ LYSLNMLVQT EGQERTPTHY HMLLSSAGFR DFQFKKTGAI
YDAILARK

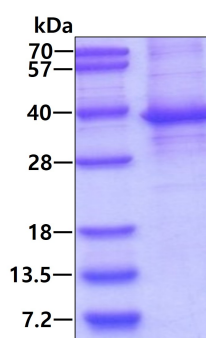
General References

Rodriguez I R., et al. (1994) J Biol Chem. 269:31969-31977.

Toma C., et al. (2007) Mol Psychiatry. 12:977-979.

DATA

SDS-PAGE



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