

Recombinant Human acetylserotonin O-methyltransferase, His-tagged

Cat. No. ASMT-350H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ASMT, 1-298aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-298 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1M Urea, 10% glycerol
Molecular Mass	35.3 kDa (318aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSSEDQAYR LLNDYANGFM VSQVLFACE LGVFDLLAEA PGPLDVAAVA AGVRASAHGT ELLLDICVSL KLLKVETRGG KAFYRNTELS SDYLTTVSPT SQCSMLKYMG RTSYRCWGH L ADAVREGRNQ YLETFGVPAE ELFTAIYRSE GERLQFMQAL QEVWSVNGRS VLTAFDLSVF PLMCDLGGDF FKDPLPEADL YILARVLHDW ADGKCSHLL E RIYHTCKPGG

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GILVIESLLD EDRRGPLLQ LYSLNMLVQT EGQERTPTHY HMLLSSAGFR
DFQFKKTGAI YDAILARK

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ASMT acetylserotonin O-methyltransferase \[Homo sapiens \]](#)

Official Symbol ASMT

Synonyms ASMT; acetylserotonin O-methyltransferase; ASMTY; HIOMT; HIOMTY; hydroxyindole O-methyltransferase; acetylserotonin N-methyltransferase; acetylserotonin methyltransferase (Y chromosome);

Gene ID [438](#)

mRNA Refseq [NM_001171038](#)

Protein Refseq [NP_001164509](#)

MIM [300015](#)

UniProt ID [P46597](#)

Chromosome Location Xp22.3 and Yp11.3

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Pathway

Amine-derived hormones, organism-specific biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Melatonin biosynthesis, tryptophan =>serotonin => melatonin, organism-specific biosystem; Melatonin biosynthesis, tryptophan => serotonin =>

Function

O-methyltransferase activity; acetylserotonin O-methyltransferase activity; transferase activity;

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