

AR50613PU-S

Human ASMT (1-298, His-tag) - Purified

Alternate names:

HIOMT, Hydroxyindole O-methyltransferase

Quantity:

0.1 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P46597](#)

NCBI:

[NP_001164509.1](#)

GeneID:

[438](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1M Urea, 10% glycerol

Description:

Recombinant human ASMT protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSSDQAYR LLNDYANGFM VSQVLFACE LGVFDLLAEA
PGPLDVAAVA AGVRASAHGT ELLLDICVSL KLLKVETRGG KAFYRNTLS SDYLTTVSPT
SQCSMLKYM RTSYRCWGH ADAREGRNQ YLETFGVPAE ELFTAIYRSE GERLQFMQAL
QEVWSVNGRS VLTAFDLSVF PLMCDLGGDF FKDPLPEADL YILARVLHDW ADGKCSHLL
RIYHTCKPGG GILVIESLLD EDRRGPLLQ LYSNMLVQT EGQERTPTHY HMLLSAGFR
DFQFKKTGAI YDAILARK

Molecular weight: 35.3 kDa (318aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Rodriguez I R., et al. (1994) J Biol Chem. 269:31969-31977. Toma C., et al. (2007) Mol Psychiatry. 12:977-979.

Pictures:

