
Product Data Sheet

Product Name: ASMT Human
 Cat. No.: GP21418
 Batch No.: 1

Product Data

| | | | |
|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | HIOMT; HIOMTY; Acetylserotonin O-methyltransferase ; Hydroxyindole O-methyltransferase ; ASMT. | | |
| Amino Acid Sequence | MGSSHHHHHH SSGLVPRGSH MGSSDQAYR LLNDYANGFM VSQVLFAACE LGVFDLLAEA PGPLDVAAVA AGVRASAHGT ELLLDICVSL KLLKVETRGG KAFYRNTELS SDYLTTVSPT SQCSMLKYMRTS YRCWGH LADAVREGRNQ YLETFGVPAE ELFTAIYRSE GERLQFMQAL QEVWSVNGRS VLTAFDLSVF PLMCDLGGDF FKDPLPEADL YILARVLHDW ADGKCSHLLR IYHTCKPGG GILVIESLLD EDRRGPLLQ TLYSLNMLVQT EGQERTPTHY HMLLSSAGFR DFQFKKTGAI YDAILARK | | |
| Formulation | The ASMT solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) , 1M Urea and 10% glycerol. | | |

Introduction

ASMT is a member of the methyltransferase superfamily. ASMT participates in melatonin biosynthesis. ASMT Expressed in brain, retina and pineal gland, ASMT utilities to catalyze the final reaction in the synthesis of melatonin, particularly the conversion of S-adenosyl-L-methionine and N-acetylserotonin to S-adenosyl-Lhomocysteine and melatonin.

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

ASMT Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 318 amino acids (1-298 a.a) and having a molecular mass of

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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35.3kDa.ASMT is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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