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ASMTL Antibody Blocking Peptide

Catalog Number: bs-9112P

Activity: Not tested

Purification: HPLC

Storage: Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Serotonin, a monoamine neurotransmitter associated with neuronal modulation of

emotions, is synthesized by serotonergic neurons of the central nervous system through metabolism of the essential amino acid L-tryptophan. In the pineal gland, serotonin can be transformed into the circadian regulatory hormone melatonin by ASMT (acetylserotonin O-methyltransferase) which catalyzes the final reaction in the synthesis pathway. ASMTL (N-acetylserotonin O-methyltransferase-like protein) is a 621 amino acid protein with a putative catalytic S-adenosyl-L-methionine domain that shares high genetic homology to ASMT. The ASMTL protein is encoded by a gene from the PAR1 region of the X and Y chromosomes, which is considered to be a fusion product of two evolutionarily disparate genes. ASMTL, with potential cytoplasmic localization, is abundant in pancreas, placenta, fibroblast, thymus, prostate, testis, ovary and colon. Low expression levels are found in