
Product Data Sheet

Product Name: NNMT Mouse
 Cat. No.: GP22009
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Nicotinamide N-methyltransferase ; Nnmt; icotinamide N-methyltransferase isoform1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHEMESGFT SKDTYLSHFN PRDYLEKYYS FGSRHCAENE ILRHLLKNLF KIFCLGAVKG ELLIDIGSGP TIYQLLSACE SFTEIIVSDY TDQNLWELQK WLKKEPGAFD WSPVVITYVCD LEGNRMKGPE KEEKLRRRAIK QVLKCDVTQS QPLGGVSLPP ADCLLSTLCL DAACPDLPAY RTALRNLGSL LKPGGFLVMV DALKSSYYMI GEQKFSSLPL GWETVRDAVE EAGYTIEQFE VISQNYSSSTT SNNEGLFSLV GRKPGRSE.		
Formulation	NNMT protein solution (1mg/ml) containing 20mM Tris-HCl (pH8.0), 10% glycerol and 1mM DTT.		

Introduction

NNMT is part of the family of transferases, especially those transferring one-carbon group methyltransferases. NNMT is mostly expressed in the liver, and a lower expression is seen in the kidney, lung, skeletal muscle, placenta and heart. NNMT catalyzes the N-methylation of nicotinamide and other pyridines to form pyridinium ions. This activity is significant for biotransformation of many drugs and xenobiotic compounds. NNMT is accountable for the enzymatic activity which uses S-adenosyl methionine as the methyl donor. NNMT expression is related with tumor stage and DFS time in hepatocellular carcinoma cases. NNMT is a good candidate as a tumor marker of various kinds of cancers. NNMT serum levels have significance in the premature detection and in the management of patients with colorectal cancer.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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

NNMT Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 288 amino acids (1-264a.a) and having a molecular mass of 32.1kDa. NNMT is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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