

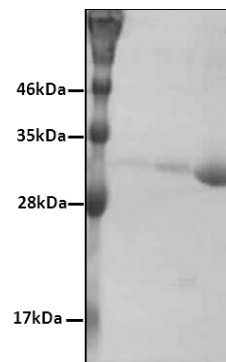
# Nicotinamide N-Methyltransferase, Human Recombinant (hNNMT)

|                            |   |         |
|----------------------------|---|---------|
| <b>CATALOG #:</b>          | 7261-20   | 20 µg   |
|                            | 7261-100  | 100 µg  |
|                            | 7261-1000   | 1000 µg |
| <b>SOURCE:</b>             | <i>E. coli</i>  |         |
| <b>PURITY:</b>             | ≥98% by SDS-PAGE  |         |
| <b>MOL. WEIGHT:</b>        | 31.7 kDa (263 aa + NT 6 x His-tag)  |         |
| <b>FORMULATION:</b>        | 3.42 mg/ml solution in 25 mM Tris (pH 8.0) buffer containing 20% glycerol.                |         |
| <b>STORAGE CONDITIONS:</b> | Stable for 1 year at -70°C. Avoid multiple freeze / thaw cycles as activity may decrease. |         |

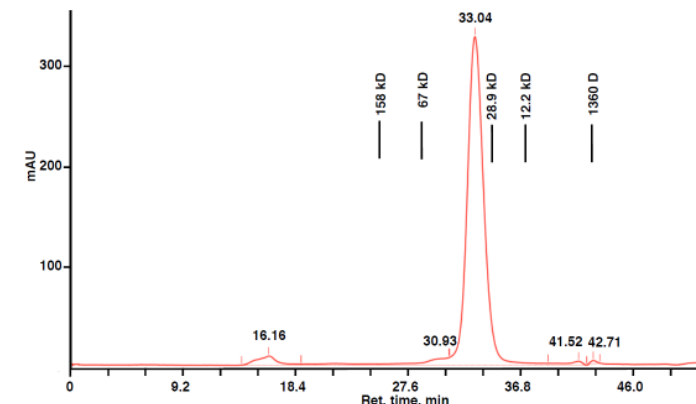
**DESCRIPTION:** N-methylation is one method by which drug and other xenobiotic compounds are metabolized by the liver. NNMT is an important cytosolic methyltransferase catalyzing the N-methylation of nicotinamide, pyridines and structural analogs, playing a crucial role in the biotransformation and detoxification of many xenobiotic compounds. In the N-methylation process, NNMT uses S-adenosyl methionine as the methyl donor and nicotinamide as methyl acceptor. NNMT is mostly expressed in the liver, and a lower expression is seen in the kidney, lung, skeletal muscle, placenta and heart. It may also play an important role in regulating biological processes related to N-methyl nicotinamide such as anti-inflammatory, anti-thrombotic, vasoprotective, and gastroprotective properties. Increased NNMT activity was reported in many kinds of tumors. NNMT is a potential biomarker and therapeutic target in cancer diagnosis and treatment. NNMT serum levels have significance in the premature detection and in the management of patients with colorectal cancer. The recombinant protein includes hNNMT with N-terminal His-tag.

**APPLICATION AND USAGE:**

hNNMT is useful in studying enzyme activity, screening inhibitors and selectivity profiling.



15% SDS-PAGE of hNNMT.  
 Lane 1: Protein Marker  
 Lane 2: hNNMT, 0.04 µg  
 Lane 3: hNNMT, 0.20 µg  
 Lane 4: hNNMT, 1.00 µg



SEC analysis of hNNMT using a Superdex 200 HR 10/30 column at 0.5 ml/min in 50 mM Tris and 0.25 M NaCl pH 7.6.

**RELATED PRODUCTS:**

- PRMT1, human recombinant (Cat. No. 4865-10, 50, -1000)
- PRMT1, mouse recombinant (Cat. No. 4868-10, 50, -1000)
- PRMT-5 Antibody (Cat. No. 3935-100)
- PRMT1 Antibody (Cat. No. 3792-100)
- PRMT6 Antibody (Cat. No. 3086-100)
- PRMT7 Antibody (Cat. No. 3059-100)
- WDR18 Antibody (CT) (Cat. No. 5402-100)
- WDR35 Antibody (NT) (Cat. No. 5403-100)
- WDR5 Antibody (NT) (Cat. No. 5404-100)
- I-BET151 (Cat. No. 2220-1, -5)

**FOR RESEARCH USE ONLY! Not to be used on humans.**