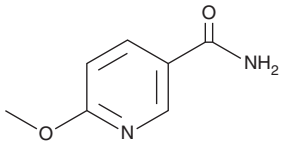
PRODUCT INFORMATION

JBSNF-000088

Item No. 29920

CAS Registry No.:	7150-23-4
Formal Name:	6-methoxy-3-pyridinecarboxamide
Synonyms:	6-Methoxynicotinamide, NSC 70628
MF:	$C_7H_8N_2O_2$
FW:	152.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 240, 273 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

JBSNF-000088 is supplied as a solid. A stock solution may be made by dissolving the JBSNF-000088 in the solvent of choice, which should be purged with an inert gas. JBSNF-000088 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of JBSNF-000088 in ethanol is approximately 1 mg/ml and approximately 5 mg/ml in DMSO and DMF.

JBSNF-000088 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, JBSNF-000088 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. JBSNF-000088 has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

JBSNF-000088 is an inhibitor of nicotinamide N-methyltransferase (NNMT; IC_{50}s = 1.8, 2.8, and 5 µM for human, monkey, and mouse NNMT, respectively).[1] It inhibits NNMT and reduces 1-methyl-nicotinamide (MNA) levels in U2OS and 3T3L1 cells (IC_{50}s = 1.6 and 6.3 µM, respectively). JBSNF-000088 (50 mg/kg) reduces visceral white adipose tissue (WAT) MNA levels, body weight, fed blood glucose levels, and plasma and liver triglyceride levels, and improves oral glucose tolerance in a mouse model of diet-induced obesity (DIO). It also improves glucose tolerance, without affecting body weight, in the *ob/ob* and *db/db* mouse models of insulin resistance and diabetes, respectively.

Reference

1. Kannt, A., Rajagopal, S., Kadnur, S.K., *et al.* A small molecule inhibitor of nicotinamide N-methyltransferase for the treatment of metabolic disorders. *Sci. Rep.* **8(1)**, 3660 (2018).

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