



Nicotinamide *N*-oxide

Cat. No.:	0225LY-1148
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	50 mg; 100 mg; 250 mg; 500 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Nicotinamide <i>N</i> -oxide is an <i>in vivo</i> metabolite of nicotinamide and a precursor to NAD ⁺ , which is reduced back to nicotinamide in the liver by xanthine oxidase.
Synonym	Nicotinamide- <i>N</i> -oxide; Nicotinamide 1-oxide; 1-oxynicotinamide; 1986-81-8; Nicotinamide- <i>n</i> -oxide; 3-Pyridinecarboxamide, 1-oxide; 1-oxidopyridin-1-ium-3-carboxamide; 3-carbamoylpyridin-1-ium-1-olate; 1-Oxy-nicotinamide; 3-Carbamoylpyridine 1-oxide; Nicotinamide, 1-oxide; Nicotinamide N1-oxide; Oxynicotinamide; 1-Oxide-nicotinamide
CAS No.	1986-81-8
Compound CID	72661
Formula	C ₆ H ₆ N ₂ O ₂
Formula Weight	138.12

Specification

Relative Density	1.34 g/cm ³
IUPAC Name	1-Oxidopyridin-1-ium-3-carboxamide
InChI	InChI=1S/C6H6N2O2/c7-6(9)5-2-1-3-8(10)4-5/h1-4H,(H2,7,9)
InChI Key	USSFUVKEHXDAPM-UHFFFAOYSA-N
SMILES string	C1=CC(=C[N+](=C1)[O-])C(=O)N
Stability	3 years in powder form.
Storage	Storage at -20°C.

**Applications**

Nicotinamide *N*-oxide can be used in metabolic studies to examine the oxidation products of nicotinamide and their biological relevance.

Library Information

Target	CXCR; c-Myc
Receptor	c-Myc; CXCR
Pathways	Autophagy; Metabolism; Cell cycle/Checkpoint; GPCR/G protein signaling; Immunology/Inflammation
Plate Number	AOCL-15
Plate Location	g4
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	3.85 mg/mL; 27.87 mM