



Certificate of Analysis

www.tocris.com

Product Name: Nicotinamide Catalog No.: 4106 Batch No.: 1

CAS Number: 98-92-0 EC Number: 202-713-4

IUPAC Name: Pyridine-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_6N_2O$ Batch Molecular Weight:122.12Physical Appearance:White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 59.01 4.95 22.94 Found 58.95 4.93 23.01



Product Information

Print Date: Nov 4th 2025

www.tocris.com

Nicotinamide Catalog No.: 4106 **Product Name:** Batch No.: 1

CAS Number: 98-92-0 EC Number: 202-713-4

IUPAC Name: Pyridine-3-carboxamide

Description:

Nicotinamide is an anti-inflammatory agent. Inhibitor of poly (ADP-ribose) polymerase (PARP-1) enzymes. NAD+ precursor. Promotes differentiation of mesenchymal stem cells to insulin producing cells when used in combination with growth factors and high glucose concentration. Nicotinamide also acts as a SIRT1 inhibitor and promotes the expansion of hematopoietic progenitor cells. Nicotinamide can be used in a small molecule cocktail to generate 3D culture of lung alveolar cells. Nicotinamide synthesized to Ancillary Material Grade also available. For more information about how Nicotinamide may be used, see our protocol: 3D Culture of Lung ... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: C₆H₆N₂O Batch Molecular Weight: 122.12 Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:

CONH

Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Bartfeld et al (2015) In vitro expansion of human gastric epithelial stem cells and their responses to bacterial infection. Gastroenterology 148 126. PMID: 25307862.

Boj et al (2015) Organoid models of human and mouse ductal pancreatic cancer. Cell 160 324. PMID: 25557080.

Sato et al (2015) SnapShot: Growing organoids from stem cells. Cell 161 1700. PMID: 26091044.