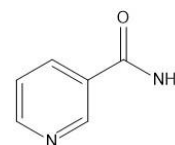


Catalog	Unit
TBI2840 - 1G	1 g
TBI2840 - 5G	5 g

### Product Details

**Formal Name:** Pyridine-3-carboxylic acid amide  
**Alternate Names:** Nicotinic acid amide; Niacinamide; Vitamin B<sub>3</sub>, NAM  
**Molecular Formula:** C<sub>6</sub>H<sub>6</sub>N<sub>2</sub>O  
**Formula Weight:** 122.1  
**CAS Number:** 98-92-0  
**Purity:** >99%  
**Formulation:** Powder  
**Solubility:** Soluble in DMSO (up to 50 mg/ml) or in Water (up to 50 mg/ml)  
**Storage:** RT  
**Stability:** ≥ 2 years.



### Applications

SIRT1 inhibitor; essential nutrient

### Functions

Nicotinamide (98-92-0) is an essential nutrient (amide form of Vitamin B<sub>3</sub>) that is incorporated into cofactors NADH/NAD<sup>+</sup>, important for ATP production and other key metabolic functions.<sup>1</sup> Transiently inhibits SIRT1/SIRT3 through feedback inhibition (IC<sub>50</sub> ~ 50 μM), but is quickly converted to NAD<sup>+</sup> in cells. Also inhibits certain kinases (e.g. ROCK and CK1), making it a regulator of hPSC pluripotency, survival, and differentiation. Inhibits differentiation and enhances functionality of hematopoietic stem/progenitor cells (HSPCs).

### Application Procedures

First dissolved in DMSO (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

### Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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