



Product Information

Product ID A4940
CAS No. 329-89-5
Chemical Name 6-Aminopyridine-3-carboxamide

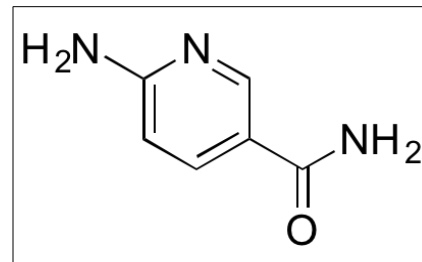
Synonym 6-Aminopyridine-3-carboxamide

Formula C₆H₇N₃O
Formula Wt. 137.14
Melting Point 245-248 °C
Purity ≥98%
Solubility DMSO; or MeOH, 0.2/20,
clear after heating

Store Temp Ambient

Ship Temp Ambient

Description 6-Aminonicotinamide inhibits glucose-6-phosphate dehydrogenase and suppresses activity in the pentose phosphate pathway. This compound exhibits potential anticancer benefit, inducing apoptosis and inhibiting the growth of cancer cells when combined with 2-deoxy-D-glucose. In vitro, 6-aminonicotinamide prevents maturation of oocytes.



Bulk quantities available upon request

Product ID	Size
A4940	250 mg
A4940	1 g
A4940	5 g

References Parkhitko AA, Priolo C, Coloff JL, et al. Autophagy-dependent metabolic reprogramming sensitizes TSC2-deficient cells to the antimetabolite 6-aminonicotinamide. *Mol Cancer Res.* 2014 Jan;12(1):48-57. PMID: 24296756.

Alvarez GM, Ferretti EL, Gutnisky C, et al. Modulation of glycolysis and the pentose phosphate pathway influences porcine oocyte in vitro maturation. *Reprod Domest Anim.* 2013 Aug;48(4):545-53. PMID: 23189959.

Preuss J, Richardson AD, Pinkerton A, et al. Identification and characterization of novel human glucose-6-phosphate dehydrogenase inhibitors. *J Biomol Screen.* 2013 Mar;18(3):286-97. PMID: 23023104.

Bhardwaj R, Sharma PK, Jadon SP, et al. A combination of 2-deoxy-D-glucose and 6-aminonicotinamide induces cell cycle arrest and apoptosis selectively in irradiated human malignant cells. *Tumour Biol.* 2012 Aug;33(4):1021-30. PMID: 22328137.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.