



LKT Laboratories, Inc.

3-Aminobenzamide

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID A4931

CAS No. 3544-24-9

Chemical Name 3-aminobenzamide

Synonym 3-AB, 3-ABA, INO-1001

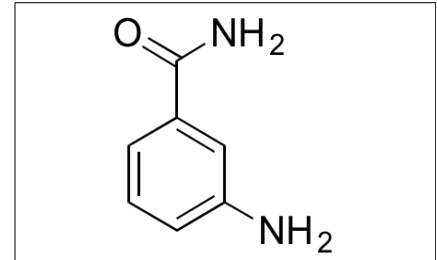
Formula C₇H₈N₂O

Formula Wt. 136.15

Melting Point 115-116°C

Purity ≥97%

Solubility Soluble in DMSO or ethanol.



Bulk quantities available upon request

Product ID	Size
A4931	100 mg
A4931	250 mg
A4931	500 mg

Store Temp 4°C

Ship Temp Ambient

Description 3-Aminobenzamide is an inhibitor of poly(ADP)-ribosyl polymerase (PARP) that exhibits cytoprotective, anti-atherosclerotic, and anticancer activities. 3-Aminobenzamide prevents UV-induced cell death in vitro and inhibits TGF-β1-induced phosphorylation of Smad3 in other cellular models. In vivo, this compound inhibits production of inflammatory cytokines, suppresses PARP activation, and decreases atherosclerotic lesion size. Additionally, 3-aminobenzamide induces G1 phase cell cycle arrest, downregulates expression of cyclin D1, β-catenin, c-Jun, c-Myc, and Id2, upregulates expression of p21 and genes involved in differentiation, and induces differentiation in osteosarcoma cells.

References Lakatos P, Szabó É, Hegedűs C, et al. 3-Aminobenzamide protects primary human keratinocytes from UV-induced cell death by a poly(ADP-ribosyl)ation independent mechanism. *Biochim Biophys Acta*. 2013 Mar;1833(3):743-51. PMID: 23246565.

Huang D, Wang Y, Wang L, et al. Poly(ADP-ribose) polymerase 1 is indispensable for transforming growth factor-β Induced Smad3 activation in vascular smooth muscle cell. *PLoS One*. 2011;6(10):e27123. PMID: 22073128.

Xie JJ, Yu X, Liao YH, et al. Poly (ADP-Ribose) polymerase inhibition attenuates atherosclerotic plaque development in ApoE^{-/-} mice with hyperhomocysteinemia. *J Atheroscler Thromb*. 2009 Oct;16(5):641-53. PMID: 19776495.

De Blasio A, Messina C, Santulli A, et al. Differentiative pathway activated by 3-aminobenzamide, an inhibitor of PARP, in human osteosarcoma MG-63 cells. *FEBS Lett*. 2005 Jan 31;579(3):615-20. PMID: 15670817.

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