



LKT Laboratories, Inc.

Nimustine Hydrochloride

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Product Information

Product ID N3452

CAS No. 55661-38-6

Chemical Name N'-[(4-Amino-2-methyl-5-pyrimidinyl)methyl]-N-(2-chloroethyl)-N-nitrosourea hydrochloride

Synonym ACNU, Nidran

Formula C₉H₁₃ClN₆O₂ • HCl

Formula Wt. 309.16

Melting Point 170-171 °C

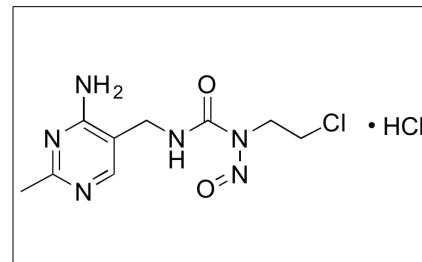
Purity ≥97%

Solubility Soluble in methanol and n-butanol. Soluble in water (100 mM) and DMSO (75 mM). (Practically insoluble in ethyl acetate, ether, chloroform and

Store Temp 4 °C

Ship Temp Ambient

Description Nimustine is a nitrosourea compound that exhibits anticancer chemotherapeutic activity. Nimustine induces DNA cross-linking and double-stranded DNA breaks. This compound is clinically used to treat gliomas and may also downregulate expression of DNA ligase IV.



Bulk quantities available upon request

Product ID	Size
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N3452	100 mg
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N3452	500 mg
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N3452	1 g
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References Kondo N, Takahashi A, Mori E, et al. DNA ligase IV is a potential molecular target in ACNU sensitivity. Cancer Sci. 2010 Aug;101(8):1881-5. PMID: 20487264.

Kanamaru R, Asamura M, Sato H, et al. Studies on the mechanism of action of ACNU, 1-(4-amino-2-methylpyrimidine-5-yl)methyl-3-(2-chloroethyl)-3-nitrosourea hydrochloride: effects on cultured HeLa S3 cells. Tohoku J Exp Med. 1980 Dec;132(4):431-41. PMID: 6942530.

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