

## Data Sheet (Cat.No.T21310)

Nimustine HCl

### Chemical Properties

CAS No.:	42471-28-3
Formula:	C <sub>9</sub> H <sub>14</sub> Cl <sub>2</sub> N <sub>6</sub> O <sub>2</sub>
Molecular Weight:	309.15
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

### Biological Description

Description	NIMUSTINE, an antineoplastic agent especially effective against malignant brain tumors, has been used in combination with other antineoplastic agents or with radiotherapy for the treatment of various neoplasms.
-------------	--

### Solubility Information

Solubility	Water: Soluble DMSO: Soluble ( < 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.235 mL	16.173 mL	32.347 mL
5 mM	0.647 mL	3.235 mL	6.469 mL
10 mM	0.323 mL	1.617 mL	3.235 mL
50 mM	0.065 mL	0.323 mL	0.647 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. Watanabe S, Sato S, Nagase S, Ohkuma S. Chemotherapeutic choice of ranimustine or nimustine on the basis of regional polyamine levels in rat brain. *Methods Find Exp Clin Pharmacol*. 2008 Mar;30(2):115-20. PubMed PMID: 18560626.
2. Batista LF, Roos WP, Christmann M, Menck CF, Kaina B. Differential sensitivity of malignant glioma cells to methylating and chloroethylating anticancer drugs: p53 determines the switch by regulating xpc, ddb2, and DNA double-strand breaks. *Cancer Res*. 2007 Dec 15;67(24):11886-95. PubMed PMID: 18089819.
3. Seya T, Tanaka N, Shinji S, Shinji E, Yokoi K, Horiba K, Kanazawa Y, Yamada T, Oaki Y, Tajiri T. Case of rectal malignant melanoma showing immunohistochemical variability in a tumor. *J Nippon Med Sch*. 2007 Oct;74(5):377-81. PubMed PMID: 17965534.
4. Hoshida Y, Moriyama M, Otsuka M, Kato N, Taniguchi H, Shiratori Y, Seki N, Omata M. Gene expressions associated with chemosensitivity in human hepatoma cells. *Hepatogastroenterology*. 2007 Mar;54(74):489-92. PubMed PMID: 17523305.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481