

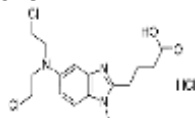
## PRODUCT: Bendamustine Hydrochloride

**ALTERNATE NAME:** 5-[Bis(2-chloroethyl)amino]-1-methyl-1*H*-benzimidazole-2-butanoic acid hydrochloride

**CATALOG #:** B1596-5,25

**AMOUNT:** 5 mg, 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>16</sub>H<sub>21</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>.HCl

**MOLECULAR WEIGHT:** 394.71

**CAS NUMBER:** 3543-75-7

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO (>30 mg/ml) or EtOH (>20 mg/ml)

**PURITY:** ≥98%

**STORAGE:** Store at -20 °C. Protect from air light

**DESCRIPTION:** Bendamustine is a novel alkylating agent with a benzimidazole ring giving it purine analogue-like properties. Like other alkylating agents, bendamustine is thought to act by modifying and cross linking purine bases in DNA, thus inhibiting DNA, RNA and protein synthesis and leading to cell death in rapidly dividing cells. Bendamustine appears to have a special activity against B cell leukemias and lymphomas.

**REFERENCES:** Keating, M.J., *et al.* (2008). *Nat. Rev. Drug. Discov.* **7**, 473-474.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

Betulinic Acid (**Cat. No. 1552-25**)  
Bexarotene (**Cat. No. 1575-5, 50**)  
Capecitabine (Cat. No. 1741-100, 1000)  
Carboplatin (**Cat. No. 1553-100**)  
Cisplatin (**Cat. No. 1550-100,1000**)  
Colchicine (**Cat. No. 1519-1000**)  
Daunorubicin.HCl (**1524-10,50,500**)  
Docetaxel (**Cat. No. 2232-10, 50**)  
Doxorubicin HCl (**Cat. No. 1527-5**)  
(-)-Epigallocatechin gallate (**Cat. No. 1841-50**)  
Epothilone B (**Cat. No. 2012-1, 5**)  
Fludarabine Phosphate (**Cat. No. 1763-10, 50**)  
Gemcitabine Hydrochloride (**Cat. No. 1759-25, 100**)  
Genistein (**Cat. No. 1533-10**)  
Lasalocid Sodium (**Cat. No. B1587-5,25**)  
Ilimaquinone (**Cat. No. 2038-100**)  
Nedaplatin (**Cat. No. 1576-5**)  
Nocodazole (**Cat. No. 2185-10, 50**)  
Oxaliplatin (**Cat. No. 1577-25**)  
Piperlongumine (**Cat. No. 1919-10, 50**)  
Paclitaxel (**Cat. No. 1567-25**)  
Solamargine (**Cat. No. B1586-5,25**)  
Tamoxifen Citrate (**Cat. No. 1551-1000**)  
Vinorelbine Tartrate (**Cat. No. 1957-5, 25**)

**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**