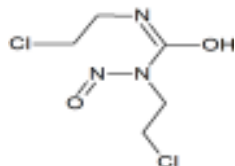


# Carmustine

**ALTERNATE NAME:** N,N'-Bis(2-chloroethyl)-N-nitrosourea  
bis-Chloroethylnitrosourea  
BCNU  
Gliadel  
NSC 409962

**CATALOG #:** B2658-5 5 mg  
B2658-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>5</sub>H<sub>9</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>

**MOLECULAR WEIGHT:** 214.05

**CAS NUMBER:** 154-93-8

**APPEARANCE:** Amorphous solid

**PURITY:** ≥95%

**SOLUBILITY:** ~20 mg/ml DMSO

**DESCRIPTION:** Carmustine is a nitrogen mustard and a cell-cycle phase nonspecific alkylating antineoplastic agent. It forms interstrand crosslinks in DNA, which prevents DNA replication and transcription leading to apoptosis. Carmustine is also reported to inhibit glutathione reductase, thioredoxin reductase, and lipoamide dehydrogenase. It is used in the treatment of brain tumors and various other malignant neoplasms.

**STORAGE TEMPERATURE:** -20°C. Protect from moisture

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

**RELATED PRODUCTS:**

Ifosfamide (B2653)  
Busulfan (B1063)  
Estramustine phosphate sodium (B2652)  
Bendamustine Hydrochloride (B1596)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*