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## Product Data Sheet

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Product Name: Semustine

Cat. No.: GC37625

### Chemical Properties

Cas. No. 13909-09-6

SMILES O=C(NC1CCC(C)CC1)N(CCCI)N=O

Formula  $C_{10}H_{18}ClN_3O_2$  M.Wt 247.72

Solubility Soluble in DMSO Storage Store at -20°C, unstable in solution, ready to use.

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Semustine is a DNA alkylator, binds to DNA, and acts as a cancer chemotherapeutic agent[1].

[1]. Agarwal S, et al. Molecular modeling and spectroscopic studies of semustine binding with DNA and its comparison with lomustine-DNA adduct formation. *J Biomol Struct Dyn*. 2015;33(8):1653-68.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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