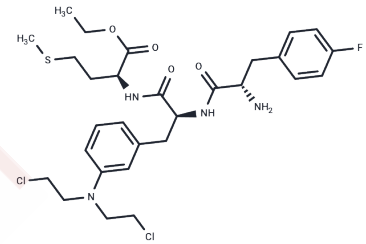


Ambamustine

Chemical Properties

CAS No. :	85754-59-2
Formula:	C ₂₉ H ₃₉ Cl ₂ FN ₄ O ₄ S
Molecular Weight:	629.61
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ambamustine, also known as PTT 119, is a tripeptide nitrogen mustard compound, which is a DNA inhibitor and DNA alkylating agent with antitumor activity. It has been studied for the treatment of tumors, immune system disorders, and blood and lymphatic system disorders.
Targets(IC50)	Others,DNA Alkylator/Crosslinker

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5883 mL	7.9414 mL	15.8828 mL
5 mM	0.3177 mL	1.5883 mL	3.1766 mL
10 mM	0.1588 mL	0.7941 mL	1.5883 mL
50 mM	0.0318 mL	0.1588 mL	0.3177 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Ardizzoni A, Antonelli G, Ricci S, Frasci G, Rinaldi M, Boni L, Galletti P, Pennucci MC, Antonuzzo A, Gravina A, Galli L, Comella G, Conte PF, Salvati F, Rosso R. Ambamustine in the second-line treatment of patients with small-cell lung cancer: a phase II Fonicap study. *Am J Clin Oncol*. 2000 Feb;23(1):22-5. PubMed PMID: 10683068.
- Manna A, Porcellini A, Visani G, Marchetti-Rossi MT, Tura S. Limiting dilution analysis of a novel tripeptide anticancer agent Ambamustine (PTT-119): effect on K-562, CCRF-SB and multidrug resistant LoVo-Dk cell lines. *Exp Hematol*. 1994 Jun;22(6):517-20. PubMed PMID: 8187848.
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- Mattii L, Barale R, Petrini M. Use of the comet test in the evaluation of multidrug resistance of human cell lines. *Leukemia*. 1998 Apr;12(4):627-32. PubMed PMID: 9557624.

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