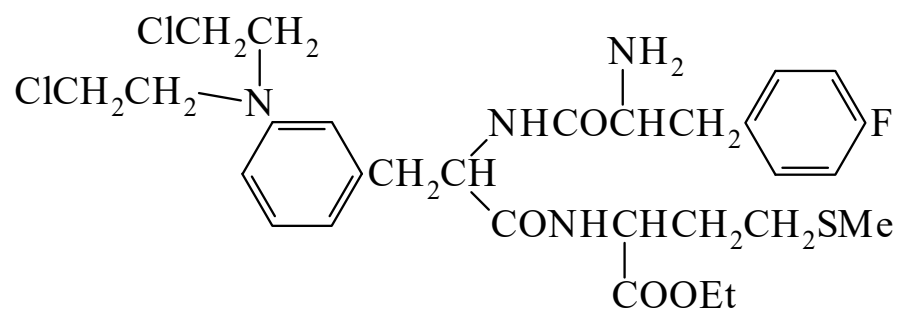




>>Entry Name: Ambamustine, INN

Synonym(s): *N*-[3-[Bis(2-chloroethyl)amino]-*N*-(4-fluoro-*L*-phenylalanyl)-*L*-phenylalanyl]-*L*-methionine ethyl ester, 9Cl. Blastop. PTT 119



CAS Registry Number: 85754-59-2

Related CAS Registry Numbers(s): 119225-43-3

Molecular Formula: C₂₉H₃₉Cl₂FN₄O₄S

Molecular Weight: 629.621

Accurate Mass: 628.205308

Percentage Composition: C 55.32%; H 6.24%; Cl 11.26%; F 3.02%; N 8.90%; O 10.16%; S 5.09%

Use/Importance: Antineoplastic, analgesic, spasmolytic agent

Calculated Log P Data: Log P 3.92 (calc)

>>Derivative: Hydrochloride

CAS Registry Number: 83996-50-3

Physical Description: Cryst. (2-propanol)

Melting Point: Mp 180-182°

Optical Rotation: $[\alpha]_D^{20} +74$ (c, 1 in EtOH)

Hazard & Toxicity: LD₅₀ (rat, ipr) 9.2 mg/kg. Mutagen

References:

De Barbieri, A. *et al.*, *Farmaco, Ed. Sci.*, 1983, **38**, 205; 1984, **39**, 26, (*synth, pharmacol*)

Roboz, J. *et al.*, *Pharmacology*, 1985, **30**, 47, (*pharmacol*)

Allegrucci, M. *et al.*, *Immunopharmacol. Immunotoxicol.*, 1987, **9**, 71, (*pharmacol*)

Yagi, M.J. *et al.*, *Chemotherapy (Basel)*, 1988, **34**, 61, (*pharmacol*)

Springolo, V. *et al.*, *J. Chromatogr.*, 1989, **490**, 224, (*hplc*)

Gherlinzoni, F. *et al.*, *Blut*, 1990, **60**, 172, (*clin trial*)