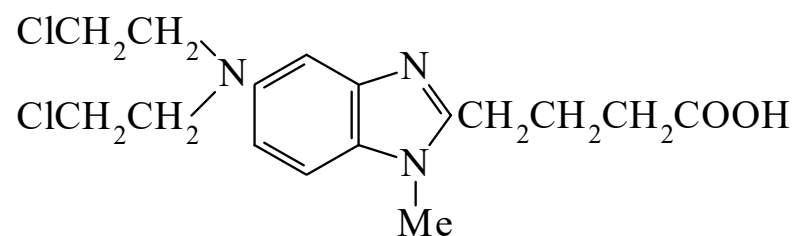




>>Entry Name: Bendamustine, INN

Synonym(s): 5-[Bis(2-chloroethyl)amino]-1-methyl-1H-benzimidazole-2-butanoic acid, 9Cl



CAS Registry Number: 16506-27-7

Related CAS Registry Numbers(s): 109882-25-9

Molecular Formula: C₁₆H₂₁Cl₂N₃O₂

Molecular Weight: 358.266

Accurate Mass: 357.101081

Percentage Composition: C 53.64%; H 5.91%; Cl 19.79%; N 11.73%; O 8.93%

Use/Importance: Antineoplastic agent

Physical Description: Cryst. (EtOH)

Melting Point: Mp 133-136°

Calculated Log P Data: Log P 3.06 (calc)

>>Derivative: Hydrochloride

Synonym(s): Cytostasan. Ribomustin. IMET 3393

CAS Registry Number: 3543-75-7

Physical Description: Bitter tasting cryst.

Melting Point: Mp 152-156°

Hazard & Toxicity: LD₅₀ (rat, orl) 200 mg/kg. LD₅₀ (rat, ivn) 40 mg/kg. Exp. reprod. and teratogenic effects. Exp. carcinogen

References:

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Heinecke, H. *et al.*, *Arzneim.-Forsch.*, 1972, **22**, 122, (*tox*)

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Werner, W. *et al.*, *Pharmazie*, 1987, **42**, 272, (*synth, ms*)

Weber, H. *et al.*, *J. Chromatogr.*, 1990, **525**, 459, (*gc*)

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