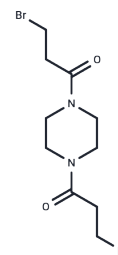


Pipobroman

Chemical Properties

CAS No. :	54-91-1
Formula:	C10H16Br2N2O2
Molecular Weight:	356.05
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	Pipobroman (Vercyte) is an anti-cancer drug that probably acts as an alkylating agent. Pipobroman has well documented clinical activity in polycythemia vera (PV) and essential thrombocythemia (ET). Pipobroman allows, within 3 months, to attain a response in more than 90% of patients, without clinically relevant toxicities. The 10-years risk of thrombosis of patients treated with Pipobroman is about 15%, The anti-proliferative activity of Pipobroman on bone marrow megakaryocytes seems of particular value in lowering the occurrence of post-PV and post-ET MMM, whose risk is the lowest registered with available treatments. The 10-year risk of acute leukemia with Pipobroman is 5% in PV and 3% in ET, which is only slightly higher than that expected as a natural evolution of the disease. In conclusion, the use of Pipobroman is a definite alternative to hydroxyurea in patients with PV and ET at high risk of thrombosis.
Targets(IC50)	DNA Alkylator/Crosslinker, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 60 mg/mL (168.52 mM), Sonication is recommended. H2O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.62 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8086 mL	14.043 mL	28.0859 mL
5 mM	0.5617 mL	2.8086 mL	5.6172 mL
10 mM	0.2809 mL	1.4043 mL	2.8086 mL
50 mM	0.0562 mL	0.2809 mL	0.5617 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

Passamonti F, et al. Treatment of polycythemia vera and essential thrombocythemia: the role of pipobroman. *Leuk Lymphoma*. 2003 Sep;44(9):1483-1488.

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