Proteins

Product Data Sheet

Pipobroman

Cat. No.: HY-16398 CAS No.: 54-91-1

Molecular Formula: $C_{10}H_{16}Br_{2}N_{2}O_{2}$

Molecular Weight: 356.05

DNA Alkylator/Crosslinker Target: Pathway: Cell Cycle/DNA Damage

Storage: Powder -20°C 3 years

2 years

-80°C In solvent 2 years

> -20°C 1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO: ≥ 36 mg/mL (101.11 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.8086 mL	14.0430 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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

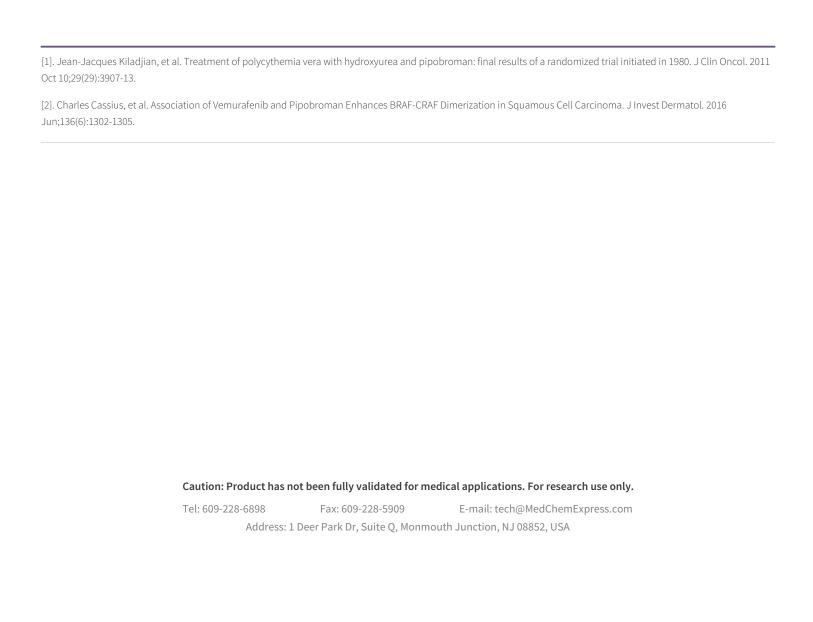
- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.84 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.84 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pipobroman is a bromide derivative of piperazine and acts as an alkylating agent. Pipobroman plays its role by inhibiting DNA and RNA polymerase or by reducing pyrimidine nucleotide incorporation into DNA. Pipobroman can be used for the cancer research, including polycythemia vera, myeloproliferative neoplasm, and AML et.al^[1].

REFERENCES



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