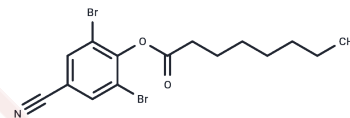


Bromoxynil octanoate

Chemical Properties

CAS No. :	1689-99-2
Formula:	C ₁₅ H ₁₇ Br ₂ N ₂ O ₂
Molecular Weight:	403.11
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Bromoxynil octanoate is an essential herbicide for plant growth and production that induces oxidative stress, inflammation, and apoptosis in testicular tissues by modulating the NF- λ B pathway.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (198.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (8.19 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	2.4807 mL	12.4036 mL	24.8071 mL
5 mM	0.4961 mL	2.4807 mL	4.9614 mL
10 mM	0.2481 mL	1.2404 mL	2.4807 mL
50 mM	0.0496 mL	0.2481 mL	0.4961 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

Cai T, et al. Degradation of bromoxynil octanoate by strain Acinetobacter sp. XB2 isolated from contaminated soil. Curr Microbiol. 2011 Aug;63(2):218-25.

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