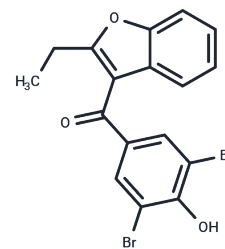


## Benzbromarone

## Chemical Properties

CAS No. :	3562-84-3
Formula:	C17H12Br2O3
Molecular Weight:	424.08
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	Benzbromarone (Desuric) is a CYP2C9 inhibitor with Ki value of 19.3 nM.
Targets(IC50)	Apoptosis,Bcl-2 Family,HSP,NF-κB,Caspase,Nrf2,Cytochromes P450,Interleukin,JNK, Xanthine Oxidase
In vivo	In oocytes expressing URAT1 (IC50 <0.1 μM), Benzbromarone (50 μM) completely inhibited the uptake of uric acid. In rat hepatocytes, Benzbromarone (100 μM) increased mitochondrial size and induced apoptosis in 11% of cells.

## Solubility Information

Solubility	Ethanol: 9 mg/mL (21.22 mM),Sonication is recommended. DMSO: 250 mg/mL (589.51 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (11.79 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

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	1mg	5mg	10mg
1 mM	2.358 mL	11.7902 mL	23.5805 mL
5 mM	0.4716 mL	2.358 mL	4.7161 mL
10 mM	0.2358 mL	1.179 mL	2.358 mL
50 mM	0.0472 mL	0.2358 mL	0.4716 mL

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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

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