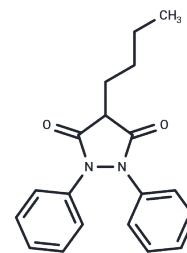


Phenylbutazone

Chemical Properties

CAS No. :	50-33-9
Formula:	C ₁₉ H ₂₀ N ₂ O ₂
Molecular Weight:	308.37
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	Phenylbutazone (Butazolidine) is a butyl-diphenyl-pyrazolidinedione that has anti-inflammatory, antipyretic, and analgesic activities. It has been used in ankylosing spondylitis, rheumatoid arthritis, and reactive arthritis.
Targets(IC50)	COX

Solubility Information

Solubility	DMSO: 55 mg/mL (178.36 mM),Sonication is recommended. Ethanol: 58 mg/mL (188.09 mM),Sonication is recommended. (< 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 (6.49 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	3.2429 mL	16.2143 mL	32.4286 mL
5 mM	0.6486 mL	3.2429 mL	6.4857 mL
10 mM	0.3243 mL	1.6214 mL	3.2429 mL
50 mM	0.0649 mL	0.3243 mL	0.6486 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

Arifah AK, Lees P. J Vet Pharmacol Ther. 2002 Aug;25(4):299-309.

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