Data Sheet (Cat.No.T39152)

TargetMol

4-Hydroxyphenylbutazone

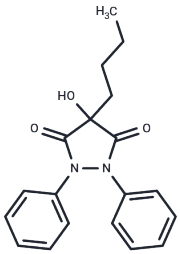
Chemical Properties

CAS No. : 16860-43-8

Formula: C19H20N2O3

Molecular Weight: 324.38

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	4-Hydroxyphenylbutazone, a metabolite of Phenylbutazone, functions as an effective reducing cofactor for the peroxidase activity of prostaglandin H synthase (PHS). Phenylbutazone is a nonsteroidal anti-inflammatory drug (NSAID) known for its efficiency in this role.
Targets(IC50)	Others,Drug Metabolite
In vitro	4-Hydroxyphenylbutazone is derived from phenylbutazone through incubation with either ram seminal vesicle microsomes or horseradish peroxidase. It is an ineffective inhibitor of PHS (cyclooxygenase)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0828 mL	15.414 mL	30.828 mL
5 mM	0.6166 mL	3.0828 mL	6.1656 mL
10 mM	0.3083 mL	1.5414 mL	3.0828 mL
50 mM	0.0617 mL	0.3083 mL	0.6166 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

Hughes MF, et, al. Prostaglandin hydroperoxidase-dependent oxidation of phenylbutazone: relationship to inhibition of prostaglandin cyclooxygenase. Mol Pharmacol. 1988 Aug;34(2):186-93.

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