# Data Sheet (Cat.No.T39152)

TargetMol

## 4-Hydroxyphenylbutazone

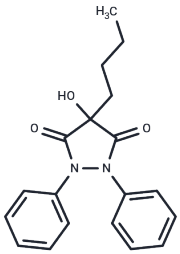
### Chemical Properties

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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