Creative Enzymes®

Phenylbutazone

Cat. No. COEC-069

Lot. No. (See product label)

Introduction

Description	Phenylbutazone is a compound of research interest as an anti-inflammatory and anti-proliferative agent. Several studies have investigated Phenylbutazone as an anti-inflammatory agent and its role in mediating prostaglandin synthesis. Phenylbutazone may be of interest regarding research into anti-proliferative effects as well, especially in colorectal cancer studies. In studies with human colon cancer cell lines investigating anti-proliferative capabilities of NSAIDs, Phenylbutazone was noted to have intermediate anti-proliferative potency as compared to other NSAIDs. Phenylbutazone is an inhibitor of Cox (cyclooxygenase) that is also a substrate for peroxidation by Cox.
Applications	An inhibitor of Cox

Product Information

Form	Solid
CAS No.	50-33-9
Molecular Formula	C19H20N2O2
Molecular Weight	308.38
Purity	≥99%
Melting Point	106-108° C (lit.)
Boiling Point	~424.9° C at 760 mmHg (Predicted)
Solubility	Soluble in water (1 mg/ml at 25° C), ethanol (62 mg/ml at 25° C), methanol, DMSO (62 mg/ml at 25° C), and DMF (25 mg/ml).
Refractive Index	1.86 (Predicted)
Density	2.02 g/cm3 (Predicted) (tautomer)