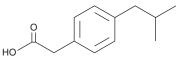
Product Information

Ibufenac

Item No. 17874

CAS Registry No.: Formal Name:	1553-60-2 4-(2-methylpropyl)-benzeneacetic acid
Synonyms:	Dytransin, Ibunac, 4-Isobutylphenylacetic Acid,
	NSC 99976
MF:	$C_{12}H_{16}O_2$
FW:	192.3
Purity:	≥95%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid
UV/Vis.:	λ_{max} : 213 nm



Laboratory Procedures

For long term storage, we suggest that ibufenac be stored as supplied at -20°C. It should be stable for at least two years. Ibufenac is supplied as a crystalline solid. A stock solution may be made by dissolving the ibufenac in the solvent of choice. Ibufenac is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of ibufenac in these solvents is approximately 30 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of ibufenac can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of ibufenac in PBS, pH 7.2, is approximately 0.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Ibufenac is an analog of the NSAID ibuprofen (Item No. 70280) that inhibits COX-1 and -2 activity with IC₅₀ values of 17.4 and 13.1 µM, respectively.1

Reference

DIAGNOSTIC OR THERAPEUTIC USE.

WARRANTY AND LIMITATION OF REMEDY

SAFETY DATA

at the time of delivery.

1. Gülcan, H.O., Ünlü, S., Dimoglo, A., et al. Marginally designed new profen analogues have the potential to inhibit cyclooxygenase enzymes. Arch. Pharm. Chem. Life Sci. 348, 55-61 (2015).

Cayman Chemical

Mailing address

1180 E. Ellsworth Road Ann Arbor, MI 48108 USA

Phone (800) 364-9897 (734) 971-3335

Fax (734) 971-3640

E-Mail

custserv@caymanchem.com

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