PRODUCT INFORMATION



Ibufenac

Item No. 17874

CAS Registry No.: 1553-60-2

Formal Name: 4-(2-methylpropyl)-benzeneacetic acid

Synonyms: Dytransin, Ibunac, 4-Isobutylphenylacetic Acid,

MF: ${\rm C}_{12}{\rm H}_{16}{\rm O}_2 \\ 192.3$ FW: ≥95% **Purity:**

UV/Vis.: λ_{max} : 213 nm Supplied as: A crystalline solid

Storage: -20°C Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ibufenac is supplied as a crystalline solid. A stock solution may be made by dissolving the ibufenac in the solvent of choice, which should be purged with an inert gas. Ibufenac is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of ibufenac in these solvents is approximately 30

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

References

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).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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