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, NSC 99976
MF: C_{12}H_{16}O_{2}
FW: 192.3
Purity: ≥95%
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 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 IC_{50} values of 17.4 and 13.1 µM, respectively.¹

References


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