



LKT Laboratories, Inc.

Ibuprofen

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Product Information

Product ID I0481

CAS No. 15687-27-1

Chemical Name α -Methyl-4-(2-methylpropyl)benzeneacetic acid

Synonym Advil

Formula C₁₃H₁₈O₂

Formula Wt. 206.28

Melting Point 75-78 °C

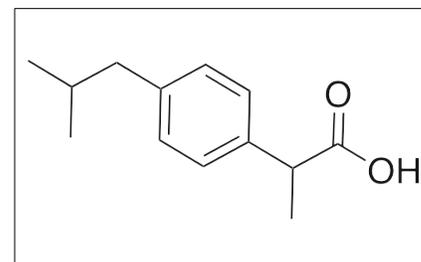
Purity \geq 98%

Solubility Insoluble in water. Soluble in most organic solvents.

Store Temp Ambient

Ship Temp Ambient

Description Ibuprofen is a non-steroidal anti-inflammatory drug (NSAID) that non-selectively inhibits COX-1 and COX-2. Ibuprofen exhibits anti-inflammatory, antipyretic, analgesic, and neuroprotective activities. This compound shows protective efficacy against Alzheimer's disease when administered clinically.



Bulk quantities available upon request

Product ID	Size
I0481	1 g
I0481	5 g
I0481	10 g

Ibuprofen is supplied as a crystalline solid. A stock solution may be made by dissolving the Ibuprofen in an organic solvent purged with an inert gas. Ibuprofen is soluble in solvents such as DMSO, ethanol, and dimethyl formamide. The solubility of Ibuprofen in these solvents is approximately 45 mg/ml. If the Ibuprofen needs to be stored long term, we recommend storing the solid Ibuprofen and not storing the Ibuprofen in solution due to potential loss of stability.

References Vlad SC, Miller DR, Kowall NW, et al. Protective effects of NSAIDs on the development of Alzheimer disease. *Neurology*. 2008 May 6;70(19):1672-7. PMID: 18458226.

Van Esch A, Van Steensel-Moll HA, Steyerberg EW, et al. Antipyretic efficacy of ibuprofen and acetaminophen in children with febrile seizures. *Arch Pediatr Adolesc Med*. 1995 Jun;149(6):632-7. PMID: 7767417.

Li W, Li J, Ashok M, et al. A cardiovascular drug rescues mice from lethal sepsis by selectively attenuating a late-acting proinflammatory mediator, high mobility group box 1. *J Immunol*. 2007 Mar 15;178(6):3856-3864. PMID: 17339485.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.