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Zuschläge

- Mindermengenzuschlag
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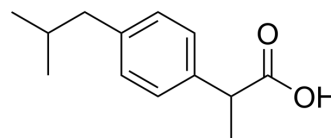
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Ibuprofen (Standard)

Cat. No.:	HY-78131R
CAS No.:	15687-27-1
Molecular Formula:	C ₁₃ H ₁₈ O ₂
Molecular Weight:	206.28
Target:	Apoptosis; COX; Parasite
Pathway:	Apoptosis; Immunology/Inflammation; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ibuprofen (Standard) is the analytical standard of Ibuprofen. This product is intended for research and analytical applications. Ibuprofen ((±)-Ibuprofen) is a potent, orally active, selective COX-1 inhibitor with an IC ₅₀ value of 13 μM. Ibuprofen inhibits cell proliferation, angiogenesis, and induces cell apoptosis. Ibuprofen is a nonsteroidal anti-inflammatory agent and a nitric oxide (NO) donor. Ibuprofen ((±)-Ibuprofen) can be used in the research of pain, swelling, inflammation, infection, immunology, cancers ^{[1][2][5][8]} .
IC₅₀ & Target	IC50: 13 μM (COX-1), 370 μM (COX-2)

REFERENCES

- [1]. Noreen Y, et al. Development of a radiochemical cyclooxygenase-1 and -2 in vitro assay for identification of natural products as inhibitors of prostaglandin biosynthesis. *J Nat Prod.* 1998 Jan;61(1):2-7.
- [2]. Hassan Akrami, et al. Inhibitory effect of ibuprofen on tumor survival and angiogenesis in gastric cancer cell. *Tumour Biol.* 2015 May;36(5):3237-43.
- [3]. Sharon M Rymut, et al. Ibuprofen regulation of microtubule dynamics in cystic fibrosis epithelial cells. *Am J Physiol Lung Cell Mol Physiol.* 2016 Aug 1;311(2):L317-27.
- [4]. Emmanuelle Bignon, et al. Ibuprofen and ketoprofen potentiate UVA-induced cell death by a photosensitization process. *Sci Rep.* 2017 Aug 21;7(1):8885.
- [5]. Nathan D Pennock, et al. Ibuprofen supports macrophage differentiation, T cell recruitment, and tumor suppression in a model of postpartum breast cancer. *J Immunother Cancer.* 2018 Oct 1;6(1):98.
- [6]. Thomas Krøigård, et al. Protective effect of ibuprofen in a rat model of chronic oxaliplatin-induced peripheral neuropathy. *Exp Brain Res.* 2019 Oct;237(10):2645-2651.
- [7]. Sarah Ilkhanipour Rooney, et al. Ibuprofen Differentially Affects Supraspinatus Muscle and Tendon Adaptations to Exercise in a Rat Model. *Am J Sports Med.* 2016 Sep;44(9):2237-45.
- [8]. M W Konstan, et al. Ibuprofen attenuates the inflammatory response to *Pseudomonas aeruginosa* in a rat model of chronic pulmonary infection. Implications for antiinflammatory therapy in cystic fibrosis. *Am Rev Respir Dis.* 1990 Jan;141(1):186-92.

Caution: Product has not been fully validated for medical applications. For research use only.

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