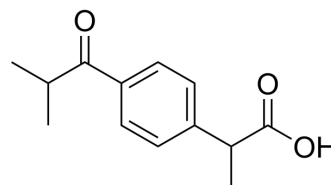


1-Oxo Ibuprofen

Cat. No.:	HY-121899
CAS No.:	65813-55-0
Molecular Formula:	C ₁₃ H ₁₆ O ₃
Molecular Weight:	220.26
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

1-Oxo Ibuprofen (Ibuprofen EP impurity J) is a degradation product and a potential impurity in preparations of Ibuprofen. Ibuprofen is an anti-inflammatory inhibitor targeting COX-1 and COX-2 with IC₅₀s of 13 μM and 370 μM, respectively^{[1][2]}.

REFERENCES

[1]. YongFang Rao, et al. Degradation of ibuprofen by a synergistic UV/Fe(III)/Ozone process. Chemical Engineering Journal. Volume 283, 1 January 2016, Pages 65-75.

[2]. 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.

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

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