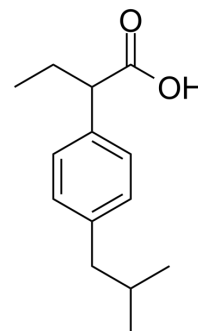


Butibufen

Cat. No.:	HY-121132
CAS No.:	55837-18-8
Molecular Formula:	C ₁₄ H ₂₀ O ₂
Molecular Weight:	220.31
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Butibufen is an orally active non-steroidal compound. Butibufen shows analgesic and antipyretic properties. Butibufen can be used for the research of inflammation ^[1] ^[2] .	
In Vitro	Butibufen (0.1 μM-0.1 M; 60 min) affects cell viability and cell attachment with a high dose ^[2] . Butibufen (1 μM; 48 h) causes a 100% cell death after 48 h exposure ^[2] . Butibufen (2 μM-1 mM; 6 h) affects synthesis of albumin in hepatocytes ^[2] . Butibufen (0.2-0.4 mM; 6 h) impaires gluconeogenesis from lactate and significantly inhibited ureogenesis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[2]	
	Cell Line:	Hepatocytes from Sprague-Dawley male rats
	Concentration:	0.1 μM-0.1 M
	Incubation Time:	60 min
	Result:	Showed no cell viability effects under the dose of 200 μM, but dose- and time-dependently affected cell viability with higher concentrations.
	In Vivo	Butibufen (50 and 250 mg/kg; p.o. 8 and 3 h before sacrifice) affects acid phosphatase activity ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	Sprague-Dawley rats ^[3]
	Dosage:	50 and 250 mg/kg
	Administration:	Oral gavage; 50 and 250 mg/kg; 8 and 3 h before sacrifice
	Result:	Reduced acid phosphatase activity but showed no effect on the stabilization of lysosomal membrane.

REFERENCES

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- [1]. Aparicio L. Some aspects of the pharmacology of butibufen, a non-steroidal anti-inflammatory agent. Arch Int Pharmacodyn Ther. 1977 May;227(1):130-41.
- [2]. Castell JV, et al. A study of the relative hepatotoxicity in vitro of the non-steroidal anti-inflammatory drugs ibuprofen, flurbiprofen and butibufen. Xenobiotica. 1988 Jun;18(6):737-45.
- [3]. Alamo C, et al. Influence of butibufen on enzyme activity and lysosomal stabilization ex vivo: a comparative study with hydrocortisone and acetylsalicylic acid. Methods Find Exp Clin Pharmacol.
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Caution: Product has not been fully validated for medical applications. For research use only.

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