



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

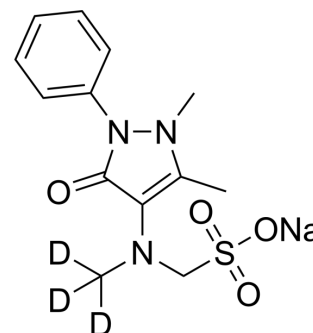
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Metamizole-d<sub>3</sub> sodium

<b>Cat. No.:</b>	HY-B1279AS
<b>CAS No.:</b>	2512223-60-6
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>13</sub> D <sub>3</sub> N <sub>3</sub> NaO <sub>4</sub> S
<b>Molecular Weight:</b>	336.36
<b>Target:</b>	COX; Isotope-Labeled Compounds
<b>Pathway:</b>	Immunology/Inflammation; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Metamizole-d <sub>3</sub> sodium is the deuterium labeled Metamizole sodium. Metamizole sodium is a non-opioid compound with excellent analgesic and antipyretic effects. Metamizole sodium is a cyclooxygenase-3 (COX-3) inhibitor <sup>[1][2]</sup> .
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. A Jasienska, et al. Pharmacological characteristics of metamizole. *Pol J Vet Sci*. 2014;17(1):207-14.
- [3]. N V Chandrasekharan, et al. COX-3, a cyclooxygenase-1 variant inhibited by acetaminophen and other analgesic/antipyretic drugs: cloning, structure, and expression. *Proc Natl Acad Sci U S A*. 2002 Oct 15; 99(21): 13926-13931.
- [4]. Manuela Malsy, et al. Effects of metamizole, MAA, and paracetamol on proliferation, apoptosis, and necrosis in the pancreatic cancer cell lines PaTu 8988 t and Panc-1. *BMC Pharmacol Toxicol*. 2017 Dec 6;18(1):77.
- [5]. Renata Zajaczkowska, et al. Metamizole relieves pain by influencing cytokine levels in dorsal root ganglia in a rat model of neuropathic pain. *Pharmacol Rep*. 2020 Oct;72(5):1310-1322.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA