



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### 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

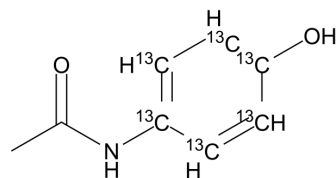
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## Acetaminophen-<sup>13</sup>C<sub>6</sub>

|                           |   |
|---------------------------|---|
| <b>Cat. No.:</b>          | HY-66005S3  |
| <b>CAS No.:</b>           | 2132405-57-1  |
| <b>Molecular Formula:</b> | C <sub>2</sub> <sup>13</sup> C <sub>6</sub> H <sub>9</sub> NO <sub>2</sub>                |
| <b>Molecular Weight:</b>  | 157.12  |
| <b>Target:</b>            | COX; Histone Acetyltransferase; Endogenous Metabolite; Isotope-Labeled Compounds          |
| <b>Pathway:</b>           | Immunology/Inflammation; Epigenetics; Metabolic Enzyme/Protease; Others                   |
| <b>Storage:</b>           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | Acetaminophen-13C6 (Paracetamol-13C6) is the 13C-labeled Acetaminophen. Acetaminophen (Paracetamol) is a selective cyclooxygenase-2 (COX-2) inhibitor with an IC <sub>50</sub> of 25.8 μM; is a widely used antipyretic and analgesic agent <sup>[1][2][3]</sup> . Acetaminophen is a potent hepatic N-acetyltransferase 2 (NAT2) inhibitor <sup>[4]</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> .<br>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]. Hinz, B, et al. Acetaminophen (paracetamol) is a selective cyclooxygenase-2 inhibitor in man. *FASEB J*, 2008. 22(2): p. 383-90.
- [3]. Miroslav Dinić, et al. Lactobacillus fermentum Postbiotic-induced Autophagy as Potential Approach for Treatment of Acetaminophen Hepatotoxicity. *Front Microbiol.* 2017 Apr 6;8:594.
- [4]. Uchida NS, et al. Hepatoprotective Effect of Citral on Acetaminophen-Induced Liver Toxicity in Mice. *Evid Based Complement Alternat Med.* 2017;2017:1796209.
- [5]. Rothen JP, et al. Acetaminophen is an inhibitor of hepatic N-acetyltransferase 2 in vitro and in vivo. *Pharmacogenetics.* 1998 Dec;8(6):553-9.

**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