



# SZABO SCANDIC

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### SZABO-SCANDIC HandelsgmbH

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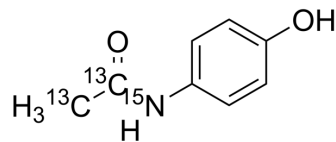
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## Acetaminophen-<sup>13</sup>C<sub>2</sub>,<sup>15</sup>N

<b>Cat. No.:</b>	HY-66005S4
<b>CAS No.:</b>	360769-21-7
<b>Molecular Formula:</b>	C <sub>6</sub> <sup>13</sup> C <sub>2</sub> H <sub>9</sub> <sup>15</sup> NO <sub>2</sub>
<b>Molecular Weight:</b>	154.14
<b>Target:</b>	COX; Bacterial; Histone Acetyltransferase; Parasite; Endogenous Metabolite
<b>Pathway:</b>	Immunology/Inflammation; Anti-infection; Epigenetics; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Acetaminophen- <sup>13</sup> C <sub>2</sub> , <sup>15</sup> N is the <sup>13</sup> C and <sup>15</sup> N labeled Acetaminophen[1]. 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[2][3][4]. Acetaminophen is a potent hepatic N-acetyltransferase 2 (NAT2) inhibitor[5].
<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 Feb;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 68:594.
- [4]. Uchida NS, et al. Hepatoprotective Effect of Citral on Acetaminophen-Induced Liver Toxicity in Mice. *Evid Based Complement Alternat Med.* 20172017:1796209.
- [5]. Rothen JP, et al. Acetaminophen is an inhibitor of hepatic N-acetyltransferase 2 in vitro and in vivo. *Pharmacogenetics.* 1998 Dec8(6):553-9.

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

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