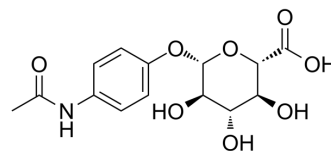


Acetaminophen glucuronide

Cat. No.:	HY-113083
CAS No.:	16110-10-4
Molecular Formula:	C ₁₄ H ₁₇ NO ₈
Molecular Weight:	327.29
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Acetaminophen glucuronide (APAP-glu) is an inactive glucuronide metabolite of Acetaminophen (HY-66005) ^{[1][2]} . Acetaminophen is a selective cyclooxygenase-2 (COX-2) inhibitor and a potent hepatic N-acetyltransferase 2 (NAT2) inhibitor ^{[3][4]} .
In Vitro	Acetaminophen is metabolized in the liver mainly by glucuronidation and sulfation, thus generating the nontoxic metabolites, Acetaminophen glucuronide (APAP-glu). Acetaminophen glucuronide is a substrate for both canalicular Mrp2 and basolateral Mrp3 in rodents ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Carolina I Ghanem, et al. Shift from biliary to urinary elimination of acetaminophen-glucuronide in acetaminophen-pretreated rats. *J Pharmacol Exp Ther.* 2005 Dec;315(3):987-95.
- [2]. Liudmila L Mazaleuskaya, et al. PharmGKB summary: pathways of acetaminophen metabolism at the therapeutic versus toxic doses. *Pharmacogenet Genomics.* 2015 Aug;25(8):416-26.
- [3]. Hinz, B, et al. Acetaminophen (paracetamol) is a selective cyclooxygenase-2 inhibitor in man. *FASEB J*, 2008. 22(2): p. 383-90.
- [4]. 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