

Product Data Sheet

Product Name: p-Cresol Glucuronide

Cat. No.: GC49414

Chemical Properties

Cas. No. 17680-99-8

SMILES OC([C@H]([C@H]([C@@H]([C@H]1O)O)O)O[C@H]1OC2=CC=C(C=C2)C)=O

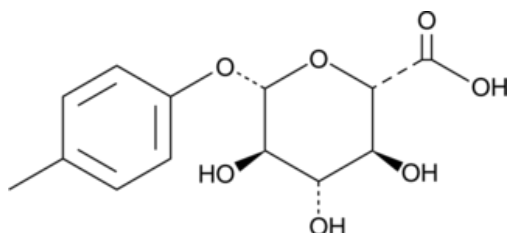
Formula C₁₃H₁₆O₇ M.Wt 284.3

Solubility DMSO : 100 mg/mL (351.79 mM; Storage -20°C
Need ultrasonic)

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure



Background

p-Cresol glucuronide is a metabolite of *p*-cresol, a uremic toxin formed by bacterial fermentation of proteins in the large intestine.¹ It is formed from *p*-cresol primarily by the UDP-glucuronosyltransferase (UGT) isoform UGT1A6, but also by UGT1A9, in human liver and kidney microsomes. *p*-Cresol glucuronide accumulates in feces, blood, and urine of patients with chronic kidney disease (CKD).²

1. Rong, Y., and Kiang, T.K.L. Characterizations of human UDP-glucuronosyltransferase enzymes in the conjugation of *p*-cresol. *Toxicol. Sci.* 176(2):285-296(2020)
2. Gryp, T., De Paepe, K., Vanholder, R., et al. Gut microbiota generation of protein-bound uremic toxins and related metabolites is not altered at different stages of chronic kidney disease. *Kidney Int.* 97(6):1230-1242(2020)

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

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