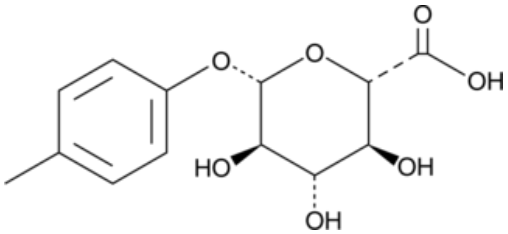
Product Data Sheet

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; Need ultrasonic)	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or 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-cresolToxicol. 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 diseaseKidney Int.97(6)1230-1242(2020)

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA