Product Data Sheet

Product Name: Uridine diphosphate glucuronic acid ammonium
Cat. No.: GC66825

Chemical Properties

Cas. No.	43195-60-4		
Formula	$C_{15}H_{25}N_3O_{18}P_2$	M.Wt	
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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

Uridine diphosphate glucuronic acid (UDP-GlcA) ammonium is a **cofactor** that is formed by the catalytic activity of UDP-glucose dehydrogenase. Uridine diphosphate glucuronic acid (ammonium) is a central precursor in sugar nucleotide biosynthesis and common substrate for C4-epimerases and decarboxylases releasing UDP-galacturonic acid (UDP-GalA) and UDP-pentose products, respectively. Uridine diphosphate glucuronic acid (ammonium), as a glucuronic acid donor, can be used for for the research of the conjugation of bilirubin in the endoplasmic recticulum[1].

[1]. Annika J E Borg, et al. Mechanistic characterization of UDP-glucuronic acid 4-epimerase. FEBS J. 2021 Feb;288(4):1163-1178.
[2]. DUTTON GJ. Uridine diphosphate glucuronic acid as glucuronyl donor in the synthesis of ester, aliphatic and steroid glucuronides. Biochem J. 1956 Dec;64(4):693-701.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA