Product Datasheet

UDP-Glucuronic acid

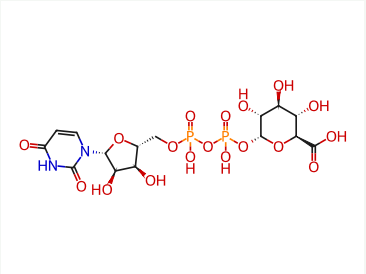
Catalog No. **BP-06865** · CAS **2616-64-0** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-11-16**

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Target	Research area
Endogenous Metabolite	**Metabolic Disease**

Molecular formula	$C_{15}H_{22}N_2O_{18}P_2$
Molecular weight	**580.2853**

STRUCTURE



DESCRIPTION

Uridine diphosphate glucuronic acid (UDP-α-D-glucuronic acid) is a cofactor that is formed by the catalytic activity of UDP-glucose dehydrogenase. Uridine diphosphate glucuronic acid 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 as a glucuronic acid donor, can be used for for the research of the conjugation of bilirubin in the endoplasmic recticulum.

BIOLOGICAL ACTIVITY

In Vitro

Uridine diphosphate glucuronic acid (1 mM; 30 min) acts as the active substrate for recombinant truncated Arabidopsis AtUGlcAE1Δ1-64[2].

REFERENCES

[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.