

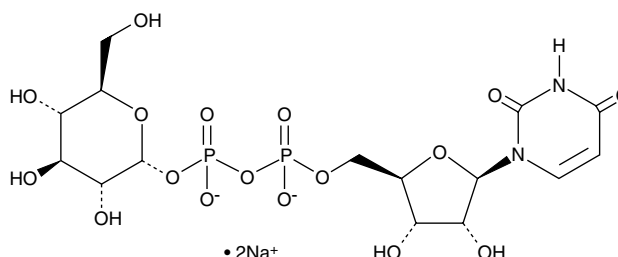
Product Information



UDP-Glucose (sodium salt)

Item No. 15602

CAS Registry No.: 28053-08-9
Formal Name: P'-α-D-glucopyranosyl ester, uridine 5'-(trihydrogen diphosphate), disodium salt
Synonyms: UDPG, Uridine-5'-diphosphoglucose
MF: C₁₅H₂₂N₂O₁₇P₂ • 2Na
FW: 610.3
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A white to off-white solid



Laboratory Procedures

For long term storage, we suggest that UDP-glucose (UDPG) (sodium salt) be stored as supplied at -20°C. It should be stable for at least one year.

UDPG (sodium salt) is supplied as a white to off-white solid. A stock solution may be made by dissolving the UDPG (sodium salt) in the solvent of choice. UDPG (sodium salt) is soluble in water at a concentration of approximately 100 mM.

UDPG is an endogenous nucleotide sugar involved in glycosyltransferase reactions in metabolism. It has been shown to bind the P2Y₁₄ receptor (EC₅₀ = 0.35 μM), an atypical P2Y receptor involved in the activation of dendritic cells and glial cells.¹ It can also bind to and activate GPR17, inducing oligodendrocyte differentiation at a maximal concentration of 100 μM.²

References

1. Jacobson, K.A., Ivanov, A.A., de Castro, S., *et al.* Development of selective agonists and antagonists of P2Y receptors. *Purinergic Signal*. **5**(1), 75-89 (2009).
2. Lecca, D., Trincavelli, M.L., Gelosa, P., *et al.* The recently identified P2Y-like receptor GPR17 is a sensor of brain damage and a new target for brain repair. *PLoS One* **3**(10), (2008).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15602

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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