



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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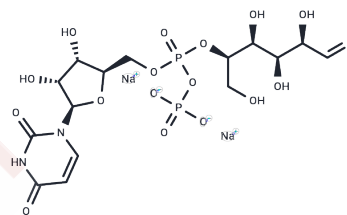
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## Uridine 5'-diphosphoglucose disodium salt

## Chemical Properties

|                   |                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------|
| CAS No. :         | 28053-08-9                                                                                               |
| Formula:          | C <sub>15</sub> H <sub>22</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>17</sub> P <sub>2</sub>            |
| Molecular Weight: | 610.27                                                                                                   |
| Appearance:       | no data available                                                                                        |
| Storage:          | store under nitrogen,keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|                            |                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | Uridine 5'-diphosphoglucose disodium salt (UDP-Glucose sodium salt) is an endogenous nucleotide sugar involved in glycosyltransferase reactions in Metabolism. It is an agonist of the P2Y <sub>14</sub> receptor (EC <sub>50</sub> = 0.35 $\mu$ M). It can also bind to and activate GPR17, inducing oligodendrocyte differentiation at a maximal concentration of 100 $\mu$ M. |
| Targets(IC <sub>50</sub> ) | Endogenous Metabolite,P2Y Receptor                                                                                                                                                                                                                                                                                                                                               |

## Solubility Information

|            |                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | H <sub>2</sub> O: 125 mg/mL (204.83 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---------------------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.6386 mL | 8.1931 mL | 16.3862 mL |
| 5 mM  | 0.3277 mL | 1.6386 mL | 3.2772 mL  |
| 10 mM | 0.1639 mL | 0.8193 mL | 1.6386 mL  |
| 50 mM | 0.0328 mL | 0.1639 mL | 0.3277 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

Jacobson, K.A., et al. Development of selective agonists and antagonists of P2Y receptors. Purinergic Signal. 5(1), 75-89 (2009).

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