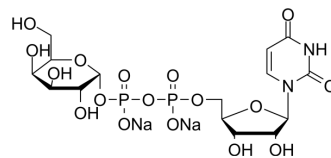


## UDP-Galactose disodium

<b>Cat. No.:</b>	HY-114364
<b>CAS No.:</b>	137868-52-1
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>22</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>17</sub> P <sub>2</sub>
<b>Molecular Weight:</b>	610.27
<b>Target:</b>	P2Y Receptor; Endogenous Metabolite
<b>Pathway:</b>	GPCR/G Protein; Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 250 mg/mL (409.65 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

UDP-Galactose disodium is a monosaccharide and a P2Y<sub>14</sub> receptor agonist with an EC<sub>50</sub> value of 0.67 μM. UDP-Galactose disodium is a substrate for the transferase beta-1, 4 galactosyltransferase V (B4GALT5)<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

P2Y<sub>14</sub> Receptor  
0.67 μM (EC<sub>50</sub>)

### REFERENCES

- [1]. Ko H, et al. Structure-activity relationship of uridine 5'-diphosphoglucose analogues as agonists of the human P2Y<sub>14</sub> receptor. *J Med Chem.* 2007 May 3;50(9):2030-9.
- [2]. Drabavicius G, Daelemans D. Intermedilysin cytolytic activity depends on heparan sulfates and membrane composition. *PLoS Genet.* 2021 Feb 12;17(2):e1009387.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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