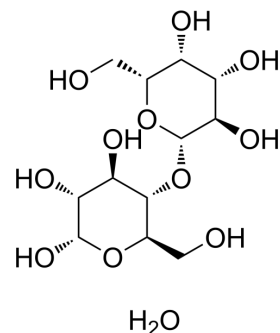


## $\alpha$ -Lactose hydrate

Cat. No.:	HY-W087904
CAS No.:	5989-81-1
Molecular Formula:	C <sub>12</sub> H <sub>24</sub> O <sub>12</sub>
Molecular Weight:	360
Target:	Others
Pathway:	Others
Storage:	<div> <div>Powder</div> <div> -20°C 3 years 4°C 2 years </div> </div> <div> <div>In solvent</div> <div> -80°C 6 months -20°C 1 month </div> </div>



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (277.78 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		2.7778 mL	13.8889 mL	27.7778 mL
		5 mM		0.5556 mL	2.7778 mL	5.5556 mL
		10 mM		0.2778 mL	1.3889 mL	2.7778 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	$\alpha$ -Lactose (hydrate) ( $\alpha$ -D-Lactose (hydrate)) is the principal carbohydrate in the milk of most mammals. $\alpha$ -Lactose (hydrate) consists of glucose and galactose and exists in the form of two anomers, $\alpha$ and $\beta$ . $\alpha$ -Lactose (hydrate) has many uses in the food and pharmaceutical industries, such as a free-flowing or agglomerating agent, a diluent for pigments, flavors, or enzymes <sup>[1][2][3]</sup> .
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### REFERENCES

[1]. Schuck, et al. Lactose crystallization: determination of  $\alpha$ -lactose monohydrate in spray-dried dairy products. (2002).

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

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