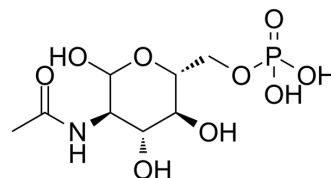


## N-Acetyl-D-galactosamine-6-phosphate

<b>Cat. No.:</b>	HY-147062		
<b>CAS No.:</b>	18191-20-3		
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>16</sub> NO <sub>9</sub> P		
<b>Molecular Weight:</b>	301.19		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 25 mg/mL (83.00 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.3202 mL	16.6008 mL	33.2016 mL
5 mM	0.6640 mL	3.3202 mL	6.6403 mL
10 mM	0.3320 mL	1.6601 mL	3.3202 mL

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

### BIOLOGICAL ACTIVITY

#### Description

N-acetyl-D-galactosamine 6-phosphate is a galactosamine phosphate that involved in galactose metabolism and phosphotransferase system (PTS). N-Acetyl-D-galactosamine-6-phosphate can be hydrolyze by NagA<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Brito-Echeverría J, et al. Response to adverse conditions in two strains of the extremely halophilic species *Salinibacter ruber*. *Extremophiles*. 2011 May;15(3):379-89.
- [2]. Hall RS, et al. N-Acetyl-D-glucosamine-6-phosphate deacetylase: substrate activation via a single divalent metal ion. *Biochemistry*. 2007 Jul 10;46(27):7942-52.
- [3]. Hall RS, et al. Structural diversity within the mononuclear and binuclear active sites of N-acetyl-D-glucosamine-6-phosphate deacetylase. *Biochemistry*. 2007 Jul 10;46(27):7953-62.

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

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