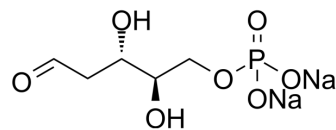


## 2-Deoxyribose 5-phosphate disodium

Cat. No.:	HY-147061
CAS No.:	102916-66-5
Molecular Formula:	C <sub>5</sub> H <sub>9</sub> Na <sub>2</sub> O <sub>7</sub> P
Molecular Weight:	258.07
Target:	Others
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (387.49 mM; ultrasonic and adjust pH to 5 with HCl)  
H<sub>2</sub>O : 83.33 mg/mL (322.90 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		3.8749 mL	19.3746 mL	38.7492 mL
	5 mM		0.7750 mL	3.8749 mL	7.7498 mL
	10 mM		0.3875 mL	1.9375 mL	3.8749 mL

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

### BIOLOGICAL ACTIVITY

#### Description

2-Deoxyribose 5-phosphate disodium is a substrate of 2-deoxyribose-5-phosphate aldolase (DERA). DERA belongs to the class I aldolases and catalyzes the reversible aldol condensation reaction without any cofactors<sup>[1]</sup>.

### REFERENCES

[1]. You ZY, et al. Characterization and application of a newly synthesized 2-deoxyribose-5-phosphate aldolase. J Ind Microbiol Biotechnol. 2013 Jan;40(1):29-39.

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

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