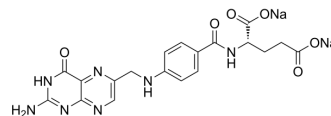


## Folic acid disodium

<b>Cat. No.:</b>	HY-16637D
<b>CAS No.:</b>	29704-76-5
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>17</sub> N <sub>7</sub> Na <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	485.36
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°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

H<sub>2</sub>O : ≥ 100 mg/mL (206.03 mM)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		2.0603 mL	10.3016 mL	20.6033 mL
	5 mM		0.4121 mL	2.0603 mL	4.1207 mL
	10 mM		0.2060 mL	1.0302 mL	2.0603 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Folic acid disodium (Vitamin B9 disodium; Vitamin M disodium) is an orally active disodium salt form of Folic acid (HY-16637) with an intrinsic dissolution rate (IDR) of  $4.96 \cdot 10^5 \text{ g/s}^{[1]}$ . Folic acid disodium serves as cofactor in single-carbon transfer reactions and exhibits protective effects against neural tube defects, ischemic events, and cancer. Folate acid disodium overload leads to impaired brain development in embryogenesis and promotes growth of precancerous altered cells. Folic acid deficiency leads to megaloblastic anemia<sup>[2]</sup>.

### REFERENCES

- [1]. Braga D., et al., Folic Acid in the Solid State: A Synergistic Computational, Spectroscopic, and Structural Approach, *Crystal Growth & Design*, 2016, 16, 4, 2218–222.
- [2]. Shulpekova Y, et al., The Concept of Folic Acid in Health and Disease. *Molecules*. 2021 Jun 18;26(12):3731.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA