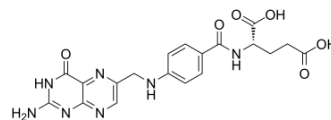


## Folic acid

<b>Cat. No.:</b>	HY-16637
<b>CAS No.:</b>	59-30-3
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>19</sub> N <sub>7</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	441.4
<b>Target:</b>	DNA/RNA Synthesis; Endogenous Metabolite
<b>Pathway:</b>	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 6 mg/mL (13.59 mM)  
H<sub>2</sub>O : < 0.1 mg/mL (insoluble)  
\* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.2655 mL	11.3276 mL	22.6552 mL
	5 mM		0.4531 mL	2.2655 mL	4.5310 mL
	10 mM		0.2266 mL	1.1328 mL	2.2655 mL

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

### BIOLOGICAL ACTIVITY

**Description** Folic acid (Vitamin M; Vitamin B9) is a B vitamin; is necessary for the production and maintenance of new cells, for DNA synthesis and RNA synthesis.

**IC<sub>50</sub> & Target** Human Endogenous Metabolite

### CUSTOMER VALIDATION

- J Mol Med (Berl). 2019 Aug;97(8):1183-1193.
- Neurotox Res. 2020 Dec;38(4):859-870.
- J Pharm Pharmacol. 2019 Nov;71(11):1645-1654.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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