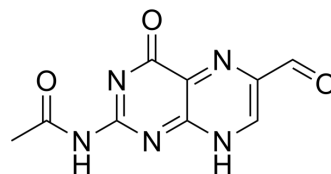


## Acetyl-6-formylpterin

<b>Cat. No.:</b>	HY-124004		
<b>CAS No.:</b>	29769-49-1		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>7</sub> N <sub>5</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	233		
<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

DMSO : 100 mg/mL (429.18 mM; Need ultrasonic)  
 DMF : 50 mg/mL (214.59 mM; Need ultrasonic and warming)  
 Ethanol : 1 mg/mL (4.29 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.2918 mL	21.4592 mL	42.9185 mL
	5 mM	0.8584 mL	4.2918 mL	8.5837 mL
	10 mM	0.4292 mL	2.1459 mL	4.2918 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (10.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (10.73 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Acetyl-6-formylpterin (Ac-6-FP) is a hapten that covalently binds to MR1 through residue Lys43 of the protein, resulting in protein upregulation. Acetyl-6-formylpterin (Ac-6-FP) can be used in the study of inflammation<sup>[1]</sup>.

### REFERENCES

- [1]. Goossens JF, et al. Properties and reactivity of the folic acid and folate photoproduct 6-formylpterin. *Free Radic Biol Med.* 2021 Aug 1;171:1-10.

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

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