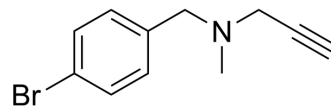


## PYCR1-IN-1

Cat. No.:	HY-126271
CAS No.:	709-85-3
Molecular Formula:	C <sub>11</sub> H <sub>12</sub> BrN
Molecular Weight:	238.12
Target:	Others
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (419.96 mM; Need ultrasonic)																							
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>4.1996 mL</td> <td>20.9978 mL</td> <td>41.9956 mL</td> </tr> <tr> <td>5 mM</td> <td>0.8399 mL</td> <td>4.1996 mL</td> <td>8.3991 mL</td> </tr> <tr> <td>10 mM</td> <td>0.4200 mL</td> <td>2.0998 mL</td> <td>4.1996 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	1 mM	4.1996 mL	20.9978 mL	41.9956 mL	5 mM	0.8399 mL	4.1996 mL	8.3991 mL	10 mM	0.4200 mL	2.0998 mL	4.1996 mL			
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Please refer to the solubility information to select the appropriate solvent.																								
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.50 mM); Clear solution																							

### BIOLOGICAL ACTIVITY

Description	PYCR1-IN-1 (compound 4) is a pyrroline-5-carboxylate reductase 1 (PYCR1) inhibitor with an IC <sub>50</sub> of 8.8 μM. PYCR1-IN-1 has anticancer effects <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC50: 8.8 μM (PYCR1) <sup>[1]</sup>

### REFERENCES

[1]. Kirsty Milne, et al. A fragment-like approach to PYCR1 inhibition. *Bioorg Med Chem Lett*. 2019 Sep 15;29(18):2626-2631.

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**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