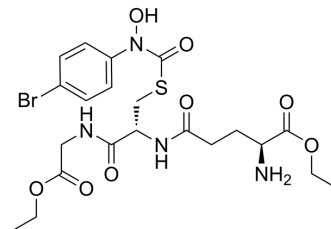


## Glyoxalase I inhibitor free base

<b>Cat. No.:</b>	HY-15167A
<b>CAS No.:</b>	174568-92-4
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>29</sub> BrN <sub>4</sub> O <sub>8</sub> S
<b>Molecular Weight:</b>	577.45
<b>Target:</b>	Glyoxalase (GLO)
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (173.18 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7318 mL	8.6588 mL	17.3175 mL
	5 mM	0.3464 mL	1.7318 mL	3.4635 mL
	10 mM	0.1732 mL	0.8659 mL	1.7318 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.75 mg/mL (4.76 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.75 mg/mL (4.76 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.75 mg/mL (4.76 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Glyoxalase I inhibitor (free base) is a potent Glyoxalase I (GLO1) inhibitor, candidate for anticancer agents.

### CUSTOMER VALIDATION

- Nature. 2018 Oct;562(7728):600-604.
- Research Square Preprint. 2021 May.

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

## REFERENCES

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[1]. Bollong MJ, et al. A metabolite-derived protein modification integrates glycolysis with KEAP1-NRF2 signalling. Nature. 2018 Oct 15.

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

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