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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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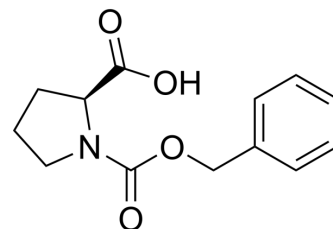
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Carbobenzoxyproline

Cat. No.:	HY-Y0588		
CAS No.:	1148-11-4		
Molecular Formula:	C ₁₃ H ₁₅ NO ₄		
Molecular Weight:	249.26		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (401.19 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	4.0119 mL	20.0594 mL	40.1188 mL
	5 mM	0.8024 mL	4.0119 mL	8.0238 mL
	10 mM	0.4012 mL	2.0059 mL	4.0119 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.03 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.03 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.03 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Carbobenzoxyproline (L-Cbz-Proline) is an inhibitor of prolidase. Carbobenzoxyproline can be used for prolidase deficiency (PD) research ^[1] .
In Vitro	Carbobenzoxyproline (6 mM; 0-10 d; pH=6.0) causes mitochondrial depolarization and increases cellular death by 33% as reported for long-term culture of fibroblasts from prolidase deficiency (PD) patients ^[1] . Carbobenzoxyproline (0, 1, 3, 6 mM; 1 min; pH=6.0) results fibroblasts prolidase (FBP) hydrolysis, shows linear competitive inhibition ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Carbobenzoxyproline (60 mg/kg; injection; once daily; 3 weeks) serves as in vivo inhibitor of erythrocytes prolidase in mice model^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57Bl/6J mice (4-week-old) ^[1]
Dosage:	60 mg/kg
Administration:	Injection; once daily for 3 weeks
Result:	Resulted significant reduction of erythrocytes prolidase activity.

REFERENCES

[1]. Lupi A, et al. N-benzyloxycarbonyl-L-proline: an in vitro and in vivo inhibitor of prolidase. Biochim Biophys Acta. 2005 Jun 30;1744(2):157-63.

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

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