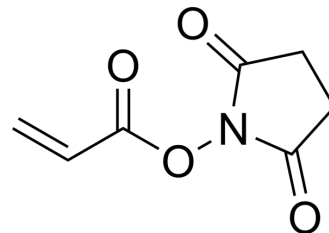


## 2,5-Dioxopyrrolidin-1-yl acrylate

Cat. No.:	HY-W043748
CAS No.:	38862-24-7
Molecular Formula:	C <sub>7</sub> H <sub>7</sub> NO <sub>4</sub>
Molecular Weight:	169.13
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	-20°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 (591.26 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.9126 mL	29.5631 mL	59.1261 mL
		5 mM	1.1825 mL	5.9126 mL	11.8252 mL
		10 mM	0.5913 mL	2.9563 mL	5.9126 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (14.78 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.78 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.78 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	2,5-Dioxopyrrolidin-1-yl acrylate (N-Succinimidyl acrylate) is a protein crosslinker. 2,5-Dioxopyrrolidin-1-yl acrylate can react with a monoclonal anti-horseradish peroxidase IgG antibody (anti-HRP) to modify lysine residues <sup>[1]</sup> .
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### REFERENCES

[1]. Okyem S, et, al. High-Affinity Points of Interaction on Antibody Allow Synthesis of Stable and Highly Functional Antibody-Gold Nanoparticle Conjugates. Bioconjug Chem. 2021 Aug 18;32(8):1753-1762.

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

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