



# SZABO SCANDIC

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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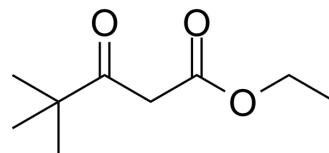
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## Ethyl pivaloylacetate

<b>Cat. No.:</b>	HY-W076971		
<b>CAS No.:</b>	17094-34-7		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>16</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	172.22		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (580.65 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	<b>Preparing Stock Solutions</b>	1 mM	5.8065 mL	29.0326 mL
	5 mM	1.1613 mL	5.8065 mL	11.6131 mL
	10 mM	0.5807 mL	2.9033 mL	5.8065 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (14.52 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.52 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (14.52 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Ethyl pivaloylacetate is a β-ketoester. Ethyl pivaloylacetate can be used as the substrate to evaluate the activity and stereoselectivity of the ketoreductase tool-box <sup>[1]</sup> .
<b>In Vitro</b>	Ethyl pivaloylacetate (compound 5) is the substrate to determine the activities of the ketoreductases by spectrophotometrically measuring the oxidation of NADPH <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Zhu D, et, al. A recombinant ketoreductase tool-box. Assessing the substrate selectivity and stereoselectivity toward the reduction of  $\beta$ -ketoesters. Tetrahedron. 2006 Jan; 62 (5): 901-905.

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

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