



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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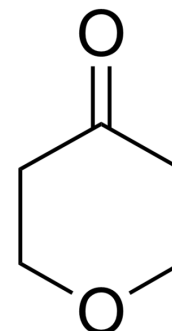
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## Tetrahydro-4H-pyran-4-one

<b>Cat. No.:</b>	HY-76487	
<b>CAS No.:</b>	29943-42-8	
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	
<b>Molecular Weight:</b>	100.12	
<b>Target:</b>	Biochemical Assay Reagents	
<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 (998.80 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	9.9880 mL	49.9401 mL	99.8801 mL
		5 mM	1.9976 mL	9.9880 mL	19.9760 mL
10 mM		0.9988 mL	4.9940 mL	9.9880 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 (24.97 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 (24.97 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (24.97 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Dihydro-2H-pyran-4(3H)-one is a biochemical reagent that can be used as a biological material or organic compound for life science related research.
<b>In Vitro</b>	It is employed in the preparation of 4-methoxytetrahydropyran-4-yl protecting group, synthesis of symmetric tetra substituted methanes. The methyl enol ether is a useful protecting agent for alcohols, eg in nucleotide synthesis, with the advantage over 3,4-Dihydro-2H-pyran. It is also employed in a study of the enantioselective alpha-aminoxylation of ketones with nitrosobenzene and L-proline in an ionic liquid. It undergoes condensation reactions in the preparation of dipeptides

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and spiroimidazolones. It is also employed in Wittig reactions for the synthesis of penicillins and in a ring of vitamin D<sub>3</sub>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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