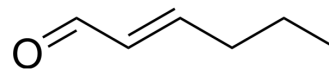


## Trans-2-Hexenal

Cat. No.:	HY-128429
CAS No.:	6728-26-3
Molecular Formula:	C <sub>6</sub> H <sub>10</sub> O
Molecular Weight:	98.14
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (509.48 mM; Need ultrasonic)																								
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td></td> <td>10.1895 mL</td> <td>50.9476 mL</td> <td>101.8952 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>2.0379 mL</td> <td>10.1895 mL</td> <td>20.3790 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>1.0190 mL</td> <td>5.0948 mL</td> <td>10.1895 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM		10.1895 mL	50.9476 mL	101.8952 mL	5 mM		2.0379 mL	10.1895 mL	20.3790 mL	10 mM		1.0190 mL	5.0948 mL	10.1895 mL			
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Please refer to the solubility information to select the appropriate solvent.																									
In Vivo	<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 (25.47 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 (25.47 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (25.47 mM); Clear solution</li> </ol>																								

### BIOLOGICAL ACTIVITY

Description	Trans-2-Hexenal can be used for the determination of low-molecular-weight carbonyl compounds which are reactive with biological nucleophiles in biological samples <sup>[1]</sup> .
IC <sub>50</sub> & Target	Determination of low-molecular-weight carbonyl compounds <sup>[1]</sup>

### REFERENCES

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[1]. Konidari CN, et al. Determination of plasma, urine, and bovine serum albumin low-molecular-weight carbonyl levels by capillary gas chromatography with electron-capture and mass-selective detection. *Anal Biochem.* 2005 Mar 1;338(1):62-70.

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

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