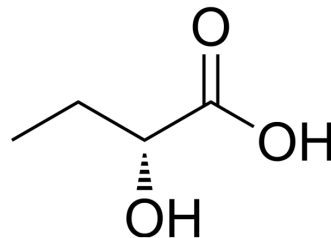


## (R)-2-Hydroxybutanoic acid

<b>Cat. No.:</b>	HY-113381A		
<b>CAS No.:</b>	20016-85-7		
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>8</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	104.1		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-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 : 250 mg/mL (2401.54 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	9.6061 mL	48.0307 mL	96.0615 mL
	<b>5 mM</b>	1.9212 mL	9.6061 mL	19.2123 mL
	<b>10 mM</b>	0.9606 mL	4.8031 mL	9.6061 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: ≥ 2.08 mg/mL (19.98 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (19.98 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (19.98 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	(R)-2-Hydroxybutanoic acid is the inactive isomer of 2-Hydroxybutyric acid (HY-113381), and can be used as an experimental control. 2-Hydroxybutyric acid (α-Hydroxybutyric acid) is converted from 2-Aminobutyric acid, with 2-oxobutyric acid as an intermediate metabolite <sup>[1]</sup> .
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### REFERENCES

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

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