Dimebutic acid

HY-W01588	1	
595-37-9		
$C_{6}H_{12}O_{2}$		
116.16		
Others		
Others		
Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	595-37-9 C ₆ H ₁₂ O ₂ 116.16 Others Others Pure form	$\begin{array}{c} C_6H_{12}O_2 \\ 116.16 \\ Others \\ Others \\ Pure form \\ -20^{\circ}C \\ 4^{\circ}C \\ In solvent \\ -80^{\circ}C \end{array}$

SOLVENT & SOLUBILITY

* "≥" m Prepar Stock :	DMSO : ≥ 100 mg/mL (860.88 mM) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	8.6088 mL	43.0441 mL	86.0882 mL	
		5 mM	1.7218 mL	8.6088 mL	17.2176 mL	
		10 mM	0.8609 mL	4.3044 mL	8.6088 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: ≥ 2.08 mg/mL (17.91 mM); Clear solution					
	 Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (17.91 mM); Clear solution 					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (17.91 mM); Clear solution					

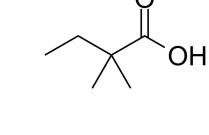
BIOLOGICAL ACTIVITY

Description

Dimebutic acid is a fatty acid derivative $^{[1]}$.

REFERENCES

Product Data Sheet





[1]. Dr Susan P. Perrine MD, et al. Evaluation of Safety and Pharmacokinetics of Sodium 2,2 Dimethylbutyrate, a Novel Short Chain Fatty Acid Derivative, in a Phase 1, Double-Blind, Placebo-Controlled, Single-Dose, and Repeat-Dose Studies in Healthy Volunteers. Clinical Pharmacology Volume51, Issue8 August 2011 Pages 1186-1194

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

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