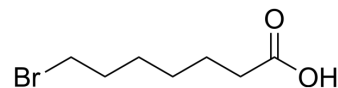


7-Bromoheptanoic acid

Cat. No.:	HY-W007714	
CAS No.:	30515-28-7	
Molecular Formula:	C ₇ H ₁₃ BrO ₂	
Molecular Weight:	209.08	
Target:	Biochemical Assay Reagents	
Pathway:	Others	
Storage:	Pure form	-20°C 3 years
		4°C 2 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (478.29 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.7829 mL	23.9143 mL	47.8286 mL
		5 mM	0.9566 mL	4.7829 mL	9.5657 mL
10 mM		0.4783 mL	2.3914 mL	4.7829 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: ≥ 2.5 mg/mL (11.96 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.96 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.96 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	7-Bromoheptanoic acid is a biochemical reagent that can be used as a biological material or organic compound for life science related research.
In Vitro	7-Bromoheptanoic acid is a building block. It has been used in the synthesis of azide-based nicotinamide phosphoribosyltransferase (Nampt) inhibitors with anticancer activity and SAHA derivatives that inhibit histone deacetylases (HDACs). MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Colombano, G., Travelli, C., Galli, U., et al. A novel potent nicotinamide phosphoribosyltransferase inhibitor synthesized via click chemistry. *J. Med. Chem.* 53(2)616-623(2010)
- [2]. Suzuki, T., Nagano, Y., Kouketsu, A., et al. Novel inhibitors of human histone deacetylases: Design, synthesis, enzyme inhibition, and cancer cell growth inhibition of SAHA-based non-hydroxamates. *J. Med. Chem.* 48(4) 1019-1032(2005)
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Caution: Product has not been fully validated for medical applications. For research use only.

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