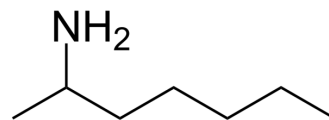


2-Aminoheptane

Cat. No.:	HY-B0952		
CAS No.:	123-82-0		
Molecular Formula:	C ₇ H ₁₇ N		
Molecular Weight:	115.22		
Target:	Others		
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 (867.90 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	8.6790 mL	43.3952 mL	86.7905 mL
	5 mM	1.7358 mL	8.6790 mL	17.3581 mL
	10 mM	0.8679 mL	4.3395 mL	8.6790 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (21.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (21.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (21.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-Aminoheptane (1-Methylhexylamine) is an isomeric heptylamine commonly used as stimulant. 2-Aminoheptane can be used as the nitrogen source in minimal medium^{[1][2]}.

REFERENCES

[1]. Zaremba I, et, al. Differentiation of isomeric heptylamines by in-source collision-induced dissociation of $[M + H]^+$ ions. Rapid Commun Mass Spectrom. 2019 May 15;33(9):848-856.

[2]. Yun H, et, al. Use of enrichment culture for directed evolution of the *Vibrio fluvialis* JS17 omega-transaminase, which is resistant to product inhibition by aliphatic ketones. Appl Environ Microbiol. 2005 Aug;71(8):4220-4.

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

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