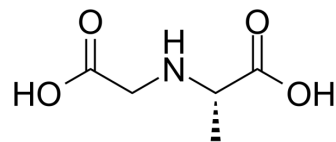


Strombine

Cat. No.:	HY-W105634
CAS No.:	56857-47-7
Molecular Formula:	C ₅ H ₉ NO ₄
Molecular Weight:	147.13
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (169.92 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.7967 mL	33.9836 mL	67.9671 mL
	5 mM	1.3593 mL	6.7967 mL	13.5934 mL
	10 mM	0.6797 mL	3.3984 mL	6.7967 mL

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

BIOLOGICAL ACTIVITY

Description

Strombine is a imino acid produced by a dehydrogenase. Strombine is a compound present in the hemolymph that is capable of cryoprotection^{[1][2]}.

REFERENCES

[1]. Fields JH, et al. Alanopine and strombine are novel imino acids produced by a dehydrogenase found in the adductor muscle of the oyster, *Crassostrea gigas*. Arch Biochem Biophys. 1980 Apr 15;201(1):110-4.

[2]. Loomis S H, et al. Identification of strombine and taurine as cryoprotectants in the intertidal bivalve *Mytilus edulis*[J]. BBA - Biomembranes, 1988, 943(2):113-118.

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

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