
Product Data Sheet

Product Name: Strombine

Cat. No.: GC66720

Chemical Properties

Cas. No. 56857-47-7

Formula C₅H₉NO₄

M.Wt 147.13

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

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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

[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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