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**Product Data Sheet**

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Product Name: Carpaine hydrochloride

Cat. No.: GC62887

**Chemical Properties**

Cas. No. 5853-21-4

Formula  $C_{28}H_{51}ClN_2O_4$  M.Wt 515.17

Solubility Storage

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**

Carpaine hydrochloride is an alkaloid isolated from *Carica papaya* Linn anti-thrombocytopenic activity, exhibits potent activity in sustaining platelet counts with no acute toxicity[1]. Carpaine hydrochloride has anti-plasmodial activity to prevent malaria[2].

Carpaine hydrochloride affects the myocardium directly, it reduces cardiac output, stroke volume, stroke work, and cardiac power in rat, which has been studied for its cardiovascular effects[3].

[1]. Zunjar V, et al. Antithrombocytopenic activity of carpaine and alkaloidal extract of *Carica papaya* Linn. leaves in busulfan induced thrombocytopenic Wistar rats. *J Ethnopharmacol.* 2016 Apr 2;181:20-5.

[2]. Julianti T, et al. Quantification of the antiplasmodial alkaloid carpaine in papaya (*Carica papaya*) leaves. *Planta Med.* 2014 Aug;80(13):1138-42.

[3]. Hornick CA, et al. Effect of carpaine, a papaya alkaloid, on the circulatory function in the rat. *Res Commun Chem Pathol Pharmacol.* 1978 Nov;22(2):277-89.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA