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**Product Data Sheet**

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Product Name: Cicloprolol hydrochloride

Cat. No.: GC32542

**Chemical Properties**

Cas. No. 63686-79-3

SMILES OC(CNC(C)C)COC1=CC=C(OCCOCC2CC2)C=C1.[H]ClFormula  $C_{18}H_{30}ClNO_4$  M.Wt 359.89

Solubility Soluble in DMSO 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**

Cicloprolol is a partial  $\beta$  1-adrenoceptor agonist .

Cicloprolol is a partial  $\beta$ 1-adrenoceptor agonist considered for the treatment of patients with coronary artery disease and impaired left ventricular function[1]. The new  $\beta$ -adrenoceptor partial agonist Cicloprolol acts as a  $\beta$ -agonist at normal levels and as a  $\beta$ -antagonist at high levels of adrenergic discharge. Treatment with Cicloprolol should protect the heart against excessive stimulation, while providing a baseline level of sympathetic drive. Cicloprolol has a weak  $\beta$ 1-agonistic effect at normal levels of adrenergic discharge and acts as an antagonist at high levels of discharge[2].

[1]. Weber S, et al. Pharmacodynamic without pharmacokinetic interaction between cicloprolol, a partial beta 1-adrenoceptor agonist, and digoxin in healthy subjects. Br J Clin Pharmacol. 1990 Sep;30(3):411-6 [2]. Cocco G, et al. An evaluation of the safety of the beta-modulator cicloprolol in chronic heart failure. Clin Cardiol. 1992 Jan;15(1):38-42.

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

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