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**Product Data Sheet**

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Product Name: SQ28603 (SQ28,603)

Cat. No.: GC31583

**Chemical Properties**

Cas. No. 100845-83-8

SMILES OC(CCNC(C(CS)CC1=CC=CC=C1)=O)=OFormula  $C_{13}H_{17}NO_3S$  M.Wt 267.34

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**

SQ28603 is a potent and selective inhibitor of neutral endopeptidase 3.4.24.11 (NEP), an enzyme that degrades atrial natriuretic peptide (ANP).

In conscious deoxycorticosterone acetate (DOCA)/salt hypertensive rats, 300 µmol/kg, i.v., of SQ28603 significantly lowers mean arterial pressure (MAP) from 177±12 to 154±8 mm Hg and increases urinary cyclic guanosine monophosphate (GMP) excretion from 204±70 to 1,068±326 pmol/kg/min within 2 h. SQ28603 also significantly reduces NEP activity by 95% in the kidneys (1.28±0.08 vs. 18.35±0.61 µmol/min after SQ28603 and vehicle respectively) and by 77% in the lungs (0.29±0.03 vs. 0.92±0.14 µmol/kg after SQ28603 and vehicle, respectively). In conclusion, inhibition of NEP activity by SQ28603 significantly decreases MAP and increases plasma ANP concentrations and urinary excretion of cyclic GMP in conscious DOCA/salt hypertensive rats[1]. The potent neutral endopeptidase inhibitor SQ28603 significantly increases excretion of sodium from 4.9±2.3 to 14.3±2.1 mEq/min and cyclic 3',5'-guanosine monophosphate from 118±13 to 179±18 pmol/min after intravenous administration of 300 µmol/kg (approximately 80 mg/kg) in conscious female cynomolgus monkeys[2].

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

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[1]. Seymour AA, et al. Antihypertensive and renal activity of SQ 28,603, an inhibitor of neutral endopeptidase. J Cardiovasc Pharmacol. 1991 Feb;17(2):296-304. [2]. Seymour AA, et al. Evaluation of SQ 28,603, an inhibitor of neutral endopeptidase, in conscious monkeys. Can J Physiol Pharmacol. 1991 Oct;69(10):1609-17.

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