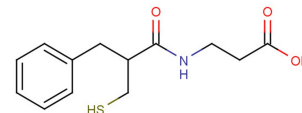


SQ28603

**Chemical Properties**

CAS No.: 100845-83-8  
Formula: C<sub>13</sub>H<sub>17</sub>NO<sub>3</sub>S  
Molecular Weight: 267.34  
Appearance: N/A  
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	SQ28603 is a potent and selective neutral endopeptidase 3.4.24.11 (NEP) inhibitor.
Targets(IC <sub>50</sub> )	NEP: None
In vivo	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 can also significantly reduce the NEP activity of the kidney by 95% (1.28±0.08 vs. 18.35±0.61 µmol/min after SQ28603 and vehicle, respectively) and 77% of the lungs (0.29±0.03 vs. 0.92±0.14 µmol/kg ) SQ28603 and vehicles). 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 muequiv./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].

**Solubility Information**

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.741 mL	18.703 mL	37.406 mL
5 mM	0.748 mL	3.741 mL	7.481 mL
10 mM	0.374 mL	1.87 mL	3.741 mL
50 mM	0.075 mL	0.374 mL	0.748 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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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