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# Triamterene

## Catalog No: tcsc2682

### Available Sizes

**Size:** 100mg

**Size:** 500mg

### Specifications

**CAS No:**
396-01-0

**Formula:**
$C_{12}H_{11}N_7$

**Pathway:**
Membrane Transporter/Ion Channel

**Target:**
Sodium Channel

**Purity / Grade:**
>98%

**Solubility:**
DMSO : 10 mg/mL (39.49 mM; Need ultrasonic); H2O :

**Observed Molecular Weight:**
253.26

## Product Description

Triamterene blocks epithelial Na+ channel (ENaC) in a voltage-dependent manner, which used as a mild diuretic.

Target: Sodium Channel

Triamterene blocked rENaC in a voltage-dependent manner, and was 100-fold less potent than amiloride at pH 7.5. At -90 mV and -40 mV, the IC50 values were 5 microM and 10 microM, respectively. The blockage by triamterene, which is a weak base with a pKa

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of 6.2, was dependent on the extracellular pH. The IC50 was 1 microM at pH 6.5 and only 17 microM at pH 8.5 [1]. Triamterene (TA) is partly eliminated by a first-pass-effect. The main metabolite of TA is OH-TA-ester, which is pharmacologically active [2].