

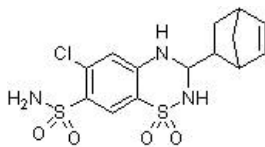
# Cyclothiazide, AMPA receptor desensitisation inhibitor ab120061

**18 References**    **画像数 2**

### 製品の概要

製品名	Cyclothiazide, AMPA receptor desensitisation inhibitor
製品の詳細	AMPA receptor desensitisation inhibitor
生理活性の詳細	Positive allosteric modulator of AMPA receptors. Produces a fast inhibition of AMPA receptor desensitization and a much slower potentiation of the AMPA current. Also available in Kit: Ionotropic agonists ( <a href="#">ab120323</a> ).
CAS 番号	2259-96-3

### 構造式



### 製品の特性

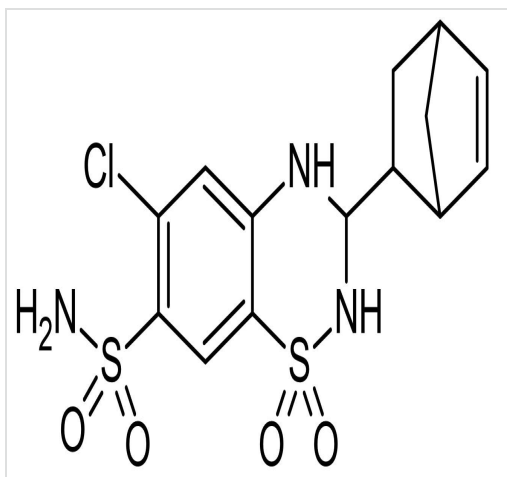
体系名	6-Chloro-3,4-dihydro-3-(norbornen-5-yl)-2H-1,2,4-benzothiadiazine-7-sulfonamide-1,1-dioxide
分子量	389.87
分子式	C <sub>14</sub> H <sub>16</sub> ClN <sub>3</sub> O <sub>4</sub> S <sub>2</sub>
PubChem 登録番号	2910
保存方法	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in ethanol to 25 mM and in DMSO to 100 mM
使用に関する注意	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>

### SMILES 線形表記

NS(=O)(=O)c4cc1c(NC(NS1(=O)=O)C3CC2C=CC3C2)cc4Cl

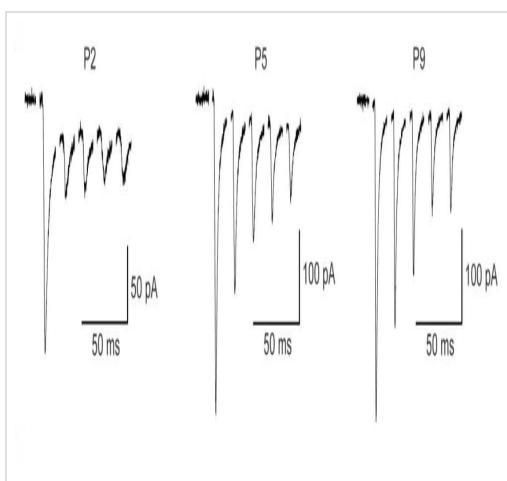
### 由来

Synthetic



Chemical Structure - Cyclothiazide, AMPA receptor desensitisation inhibitor (ab120061)

2D chemical structure image of ab120061, Cyclothiazide, AMPA receptor desensitisation inhibitor



Cellular activation - Cyclothiazide, AMPA receptor desensitisation inhibitor (ab120061)

Image from Case DT, et al. Plos One, 6(6), e20756. Fig S4., doi: 10.1371/journal.pone.0020756

To determine the capability of VCN-LSO synapses to support repetitive activity in the developing circuit, we added cyclothiazide to the perfusate to prevent AMPAR desensitization and measured responses to 50 Hz pulse-train stimuli delivered to the ventral acoustic stria. A. Representative responses to 50 Hz pulse-trains in P2, P5, and P9 cells; responses to the first five pulses only are shown. Greater paired-pulse depression between pulse 1 and 2 is evident in the youngest cell than in the older cells.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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