

Catalog Number: CM09834

## 产品信息

**Catalog Number:**  
CM09834

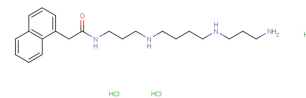
**CAS号:**  
1049731-36-3

**分子式:**  
C<sub>22</sub>H<sub>37</sub>Cl<sub>3</sub>N<sub>4</sub>O

**主要靶点:**  
iGluR

**主要通路:**  
离子通道|神经科学

**分子量:**  
479.91

**溶解度:**  
H<sub>2</sub>O:50 mg/mL (104.19  
mM), Sonification is  
recommended., DMSO:6.4 mg/mL  
(13.34 mM), Sonification is  
recommended.


## 靶点活性

AMPA:0.33 μM

## 体外活性

NASPM selectively suppressed the inwardly rectifying and Ca(2+)-permeable AMPA receptors expressed in type II neurons. It had no effect on AMPA receptors in type I neurons. The blocking effect of NASPM on the Ca(2+)-permeable AMPA receptors was use and voltage-dependent. When the effect of NASPM reached a steady state, current responses induced by ionophoretic applications of kainate, a non-desensitizing agonist of AMPA receptors, in type II neurons were suppressed by NASPM in a dose-dependent manner at -60 mV (IC<sub>50</sub> 0.33 μM, and Hill coefficient 0.94). The response to kainate recovered partially after washing out NASPM. NASPM did not affect the Ca(2+)-permeable AMPA receptors when the neuronal membrane was held at potentials more positive than +40 mV. Furthermore, the blockade by NASPM which was attained at negative potentials was transiently removed by shifting membrane potential to +60 mV for 5 s together with a single ionophoretic application of kainate.

## 描述

Naspm trihydrochloride is a synthetic analogue of Joro spider toxin and is an antagonist of calcium permeable AMPA (CP-AMPA) receptors.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years