

Catalog Number: CM06799

## 产品信息

**Catalog Number:**  
CM06799

**CAS号:**  
138977-28-3

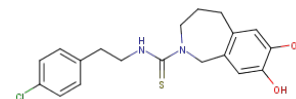
**分子式:**  
C<sub>19</sub>H<sub>21</sub>ClN<sub>2</sub>O<sub>2</sub>S

**主要靶点:**  
Apoptosis|TRP/TRPV Channel

**主要通路:**  
凋亡|离子通道

**分子量:**  
376.9

**溶解度:**  
DMSO:50 mg/mL (132.66 mM)



## 靶点活性

TRPA1:562 nM

## 体内活性

Capsazepine is a synthetic analogue of capsaicin that can function as an antagonist of TRPV1. Capsazepine can exhibit diverse effects on cancer (prostate cancer, breast cancer, colorectal cancer, oral cancer, and osteosarcoma) growth and survival, and can be therapeutically used against other major disorders such as colitis, pancreatitis, malaria, and epilepsy. Capsazepine has been reported to exhibit pleiotropic anti-cancer effects against numerous tumor cell lines. Capsazepine can modulate Janus activated kinase (JAK)/signal transducer and activator of the transcription (STAT) pathway, intracellular Ca<sup>2+</sup> concentration, and reactive oxygen species (ROS)-JNK-CCAAT/enhancer-binding protein homologous protein (CHOP) pathways. It can inhibit cell proliferation, metastasis, and induce apoptosis. Moreover, capsazepine can exert anti-inflammatory effects through the downregulation of lipopolysaccharide (LPS)-induced nuclear transcription factor-kappa B (NF-κB), as well as the blockage of activation of both transient receptor potential cation channel subfamily V member 1 (TRPV1) and transient receptor potential cation channel, subfamily A, and member 1 (TRPA1)[1].

## 描述

Capsazepine is an antagonist of TRPV1 receptor (IC<sub>50</sub>: 562 nM). Capsazepine blocks the painful sensation of heat caused by capsaicin (the active ingredient of chilli pepper) which activates the TRPV1 ion channel. It is therefore considered to be a capsaicin antagonist.

## 储存

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