

# Niflumic acid

**Catalog No: tcsc2614**



## Available Sizes

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**Size:** 100mg



## Specifications

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**CAS No:**

4394-00-7

**Formula:**

$C_{13}H_9F_3N_2O_2$

**Pathway:**

Membrane Transporter/Ion Channel

**Target:**

Chloride Channel

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

282.22

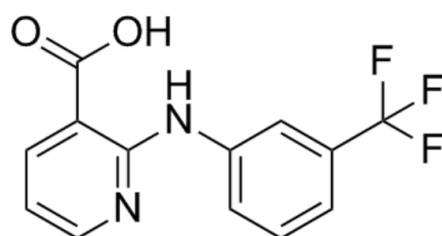
## Product Description

Niflumic acid, a Ca<sup>2+</sup>-activated Cl<sup>-</sup> channel blocker, is an analgesic and anti-inflammatory agent used in the treatment of rheumatoid arthritis.

Target: Others

niflumic acid, an inhibitor of calcium-activated chloride currents. Niflumic acid does not block directly calcium channels or activate potassium channels. Niflumic acid selectively reduces a component of noradrenaline- and 5-HT-induced pressor responses by inhibiting a mechanism which leads to the opening of voltage-gated calcium channels [1]. Niflumic acid molecule is completely

buried in the substrate-binding hydrophobic channel. The conformations of the binding site in PLA(2) as well as that of niflumic acid are not altered upon binding [2]. Niflumic acid (NFA) produces biphasic behavior on human CLC-K channels that suggests the presence of two functionally different binding sites: an activating site and a blocking site [3].



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