

Product Name: AP 18

Catalog No.: 3296

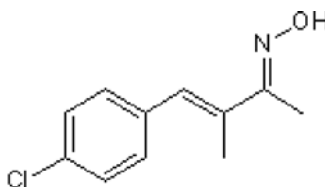
Batch No.: 2

CAS Number: 55224-94-7

IUPAC Name: 4-(4-Chlorophenyl)-3-methyl-3-buten-2-one oxime

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₂ClNO
Batch Molecular Weight: 209.67
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.19 (Ethyl acetate:Petroleum ether [95:5])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
 Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.01	5.77	6.68
Found	62.97	5.76	6.67

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: AP 18

Catalog No.: 3296

Batch No.: 2

CAS Number: 55224-94-7

IUPAC Name: 4-(4-Chlorophenyl)-3-methyl-3-buten-2-one oxime

Description:

AP 18 is a reversible TRPA1 channel blocker (IC₅₀ values are 3.1 and 4.5 μM at human and mouse TRPA1 respectively). Blocks cinnamaldehyde-induced but not capsaicin-induced nociception and reverses mechanical hyperalgesia in vivo. Also blocks TRPA1 pore dilation (IC₅₀ = 10.3 μM for the inhibition of Yo-Pro uptake).

Physical and Chemical Properties:

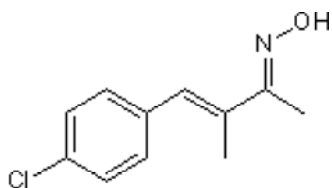
Batch Molecular Formula: C₁₁H₁₂ClNO

Batch Molecular Weight: 209.67

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Chen et al (2009) Pore dilation occurs in TRPA1 but not in TRPM8 channels. *Mol.Pain* **5** 3. PMID: 19159452.

Taylor-Clark et al (2009) Nitrooleic acid, an endogenous product of nitrative stress, activates nociceptive sensory nerves via the direct activation of TRPA1. *Mol.Pharmacol.* **75** 820. PMID: 19171673.

Petrus et al (2007) A role of TRPA1 in mechanical hyperalgesia is revealed by pharmacological inhibition. *Mol.Pain* **3** 40. PMID: 18086313.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956