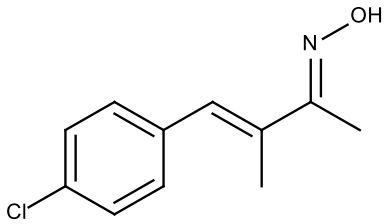
Catalog # 10-1127

AP-18

CAS# 55224-94-7

4-(4-Chlorophenyl)-3-methylbut-3-en-2-oxime

Lot # X101322



TRPA1 channel blocker IC_{50}=3.1-4.5 μM in various cell lines. Reduces cinnamaldehyde-induced nociception *in vivo* and blocks cold- and mustard oil-induced activation of mouse TRPA1 but not capsaicin-induced activation. Does not block TRPV1, V2, V3, V4 or M8 at concentrations up to 50 μM.[1] Blocks TRPA1 pore dilation (IC_{50}=10.3 μM).[2] An important tool for assessing the role of TRPA1 in cell signaling and physiological processes.[3-5]

1) Petrus *et al* (2007) *A role of TRPA1 in mechanical hyperalgesia is revealed by pharmacological inhibition*. Mol.Pain **3** 40
2) Chen *et al.* (2009) *Pore dilation occurs in TRPA1 but not in TRPM8 channels*; Mol. Pain, **5** 3
3) Lieder *et al*. (2017) *The Alkamide trans-Pellitorine Targets PPARγ via TRPV1 and TRPA1 to Reduce Lipid Accumulation in Developing 3T3-L1 Adipocytes*; Front. Pharmacol., **8** 316
4) Chepurny *et al.* (2016) *GPR119 Agonist AS1269574 Activates TRPA1 Cation Channels to Stimulate GLP-1 Secretion*; Mol. Endocrinol., **30** 614
5) Cheah *et al.* (2014) *Acrolein relaxes mouse isolated tracheal smooth muscle via a TRPA1-dependent mechanism*; Biochem. Pharmacol., 89 148

PHYSICAL DATA

Molecular Weight:	209.67
Molecular Formula:	$C_{11}H_{12}ClNO$
Purity:	>98% (TLC: 10% Methanol/methylene chloride; Rf = 0.60) NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml); ethanol (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO may be stored at -20°C for up to 2 months.

Focus Biomolecules LLC 400 Davis Dr. Suite 600 Plymouth Meeting, PA 19462

www.focusbiomolecules.com