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DATASHEET

AP 18

Product overview

Name	AP 18
Cat No	HB1157
Biological action	Antagonist
Purity	>98%
Description	TRPA1 channel antagonist

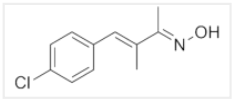
Biological Data

Biological description	TRPA1 channel antagonist (IC_{50} values are 3.1 and 4.5 µM for human TRPA1 and rat TRPA1 respectively). Exhibits little or no activity for TRPV1 - TRPV4 channels. Reduces cinnameldehyde-induced nociception but not capsaicin-induced nociception. Also partially reverses cold hyperalgesia.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (100mM) or ethanol (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	4-(4-Chlorophenyl)-3-methyl-3-buten-2-one oxime
Molecular Weight	209.67
Chemical structure	
Molecular Formula	$C_{11}H_{12}ClNO$
CAS Number	55224-94-7
PubChem identifier	9584673
SMILES	ClC1=CC=C(/C=C(C)/C(C)=N/O)C=C1
InChiKey	MHTJEUOFLVQMCL-NJHPPEEMSA-N

References

A role of TRPA1 in mechanical hyperalgesia is revealed by pharmacological inhibition.

Petrus M *et al* (2007) Mol Pain 3
PubMedID 18086313

Nitrooleic acid, an endogenous product of nitrative stress, activates nociceptive sensory nerves via the direct activation of TRPA1.

Taylor-Clark TE *et al* (2009) Mol Pharmacol 75(4)
PubMedID 19171673

Oxime derivatives related to AP18: Agonists and antagonists of the TRPA1 receptor.

Defalco J *et al* (2010) Bioorg Med Chem Lett 20(1)
PubMedID 19945872