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DATASHEET

A 967079

Product overview

Name	A 967079
Cat No	HB1156
Biological action	Blocker
Purity	>98%
Description	Potent, selective TRPA1 channel blocker

Images



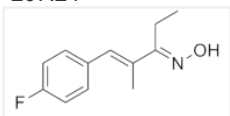
Biological Data

Biological description	Potent and selective TRPA1 channel blocker (IC_{50} values are 67 and 289 nM for human TRPA1 and rat TRPA1 channels respectively). Exhibits greater than 1000-fold selectivity for TRPA1 over other TRP channels. Exhibits analgesic actions. Does not alter body temperature unlike other TRPV1 channel blockers.
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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	(1E,3E)-1-(4-Fluorophenyl)-2-methyl-1-pentene-3-one oxime
Molecular Weight	207.24
Chemical structure	
Molecular Formula	C ₁₂ H ₁₄ FNO
CAS Number	1170613-55-4
PubChem identifier	42641861

Chemical name	(1 <i>E</i> ,3 <i>E</i>)-1-(4-Fluorophenyl)-2-methyl-1-pentene-3-one oxime
SMILES	<chem>CC/C(=N\O)/C(=C/C1=CC=C(C=C1)F)/C</chem>
InChi	InChI=1S/C12H14FNO/c1-3-12(14-15)9(2)8-10-4-6-11(13)7-5-10/h4-8,15H,3H2,1-2H3/b9-8+,14-12
InChiKey	+ HKROEBDHHKMNBZ-CHBKHGQFSA-N
MDL number	MFCD20488058

References

Selective blockade of TRPA1 channel attenuates pathological pain without altering noxious cold sensation or body temperature regulation.

Chen J *et al* (2011) Pain 152(5)

PubMedID [21402443](#)

TRPA1 modulation of spontaneous and mechanically evoked firing of spinal neurons in uninjured, osteoarthritic, and inflamed rats.

McGaraughty S *et al* (2010) Mol Pain 6

PubMedID [20205719](#)

TRPV1 and TRPA1 antagonists prevent the transition of acute to chronic inflammation and pain in chronic pancreatitis.

Schwartz ES *et al* (2013) J Neurosci 33(13)

PubMedID [23536075](#)
