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DATASHEET

HC 030031

Product overview

Name	HC 030031
Cat No	HB1158
Biological action	Blocker
Purity	>99%
Description	Selective TRPA1 channel blocker

Images



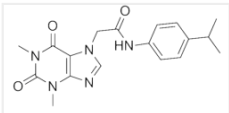
Biological Data

Biological description	Selective TRPA1 channel blocker (IC_{50} values are 0.7 and 1.2 μM for AITC- and formalin activated TRPA1 channels respectively). Displays little or no activity at TRPV1, TRPV3, TRPV4, hERG and $Na_v1.2$ channels (IC_{50} values >10 μM). Also antagonizes AITC- and formalin evoked Ca^{2+} influx (IC_{50} values are 6.2 and 5.3 μM respectively). Attenuates neuropathy- and inflammatory- induced mechanical hypersensitivity.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (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	2-(1,3-Dimethyl-2,6-dioxo-1,2,3,6-tetrahydro-7H-purin-7-yl)-N-(4-isopropylphenyl)acet amide
Molecular Weight	355.39
Chemical structure	
Molecular Formula	$C_{18}H_{21}N_5O_3$
CAS Number	349085-38-7

Chemical name	2-(1,3-Dimethyl-2,6-dioxo-1,2,3,6-tetrahydro-7 <i>H</i> -purin-7-yl)- <i>N</i> -(4-isopropylphenyl)acet amide
PubChem identifier	1150897
SMILES	<chem>O=C1C2=C(N=CN2CC(NC3=CC=C(C(C)C)C=C3)=O)N(C)C(N1C)=O</chem>
InChiKey	HEQDZPHDVAOBLN-UHFFFAOYSA-N

References

HC-030031, a TRPA1 selective antagonist, attenuates inflammatory- and neuropathy-induced mechanical hypersensitivity.

Eid SR *et al* (2008) Mol Pain 4

PubMedID [18954467](#)

TRPA1 mediates formalin-induced pain.

McNamara CR *et al* (2007) Proc Natl Acad Sci U S A 104(33)

PubMedID [17686976](#)

Activation of TRPV1 and TRPA1 leads to muscle nociception and mechanical hyperalgesia.

Ro JY *et al* (2009) Pain 144(3)

PubMedID [19464796](#)
