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## DATASHEET

HC 030031

### Product overview

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

### Images



### Biological Data

<b>Biological description</b>	Selective TRPA1 channel blocker ( $IC_{50}$ values are 0.7 and 1.2 $\mu M$ 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 $>10 \mu M$ ). Also antagonizes AITC- and formalin evoked $Ca^{2+}$ influx ( $IC_{50}$ values are 6.2 and 5.3 $\mu M$ respectively). Attenuates neuropathy- and inflammatory- induced mechanical hypersensitivity.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	2-(1,3-Dimethyl-2,6-dioxo-1,2,3,6-tetrahydro-7H-purin-7-yl)-N-(4-isopropylphenyl)acet amide
<b>Molecular Weight</b>	355.39
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{18}H_{21}N_5O_3$
<b>CAS Number</b>	349085-38-7

PubChem identifier  
SMILES  
InChiKey

1150897  
O=C1C2=C(N=CN2CC(NC3=CC=C(C(C)C)C=C3)=O)N(C)C(N1C)=O  
HEQDZPHDVAOBLN-UHFFFAOYSA-N

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## 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](#)

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