

Product Name: HC 030031

Catalog No.: 2896

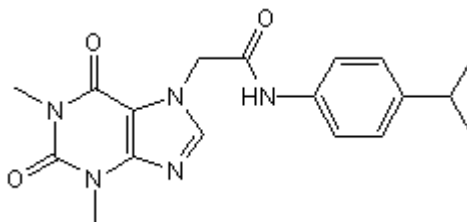
Batch No.: 4

CAS Number: 349085-38-7

IUPAC Name: 2-(1,3-Dimethyl-2,6-dioxo-1,2,3,6-tetrahydro-7H-purin-7-yl)-N-(4-isopropylphenyl)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₁N₅O₃
Batch Molecular Weight: 355.39
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 5 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Chloroform:Methanol [9:1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.83	5.96	19.71
Found	60.82	5.98	19.61

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective TRPA1 channel blocker that antagonizes AITC- and formalin-evoked calcium influx (IC₅₀ values are 6.2 and 5.3 μM respectively). Does not block currents mediated by TRPV1, TRPV3, TRPV4, hERG or Na_v1.2 channels. Inhibits AITC- and formalin-induced flinching in vivo.

Physical and Chemical Properties:

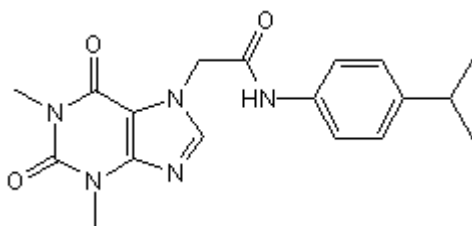
Batch Molecular Formula: C₁₈H₂₁N₅O₃

Batch Molecular Weight: 355.39

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

McNamara et al (2007) TRPA1 mediates formalin-induced pain. *Proc.Natl.Acad.Sci.USA* **104** 13525.

Taylor-Clark et al (2008) Prostaglandin-induced activation of nociceptive neurons via direct interactions with TRPA1. *Mol.Pharmacol.* **73** 274. PMID: 18000030.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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