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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

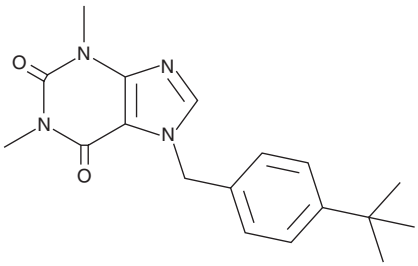
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

VU0071063

Item No. 21897



CAS Registry No.:	333415-38-6
Formal Name:	7-[[4-(1,1-dimethylethyl)phenyl]methyl]-3,7-dihydro-1,3-dimethyl-1H-purine-2,6-dione
MF:	$C_{18}H_{22}N_4O_2$
FW:	326.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 273 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

VU0071063 is supplied as a crystalline solid. A stock solution may be made by dissolving the VU0071063 in the solvent of choice. VU0071063 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of VU0071063 in these solvents is approximately 20 and 30 mg/ml, respectively.

VU0071063 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, VU0071063 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. VU0071063 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

VU0071063 is a potent and selective activator of the inward-rectifier potassium channel (K_{ir}) 6.2 and sulfonylurea receptor (SUR) 1 (EC_{50} = 7 µM using whole cell patch clamp electrophysiology).[1] It is selective for SUR1-containing K_{ir}6.1 or K_{ir}6.2 channels over SUR2A, K_{ir}2.1, K_{ir}2.2, K_{ir}2.3, K_{ir}3.1/3/2, and voltage-gated potassium channel 2.1. VU0071063 inhibits glucose-stimulated calcium entry in isolated mouse pancreatic β-cells.

Reference

1. Raphemot, R., Swale, D.R., Dadi, P.K., *et al.* Direct activation of β-cell KATP channels with a novel xanthine derivative. *Mol. Pharmacol.* **85(6)**, 858-865 (2014).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM