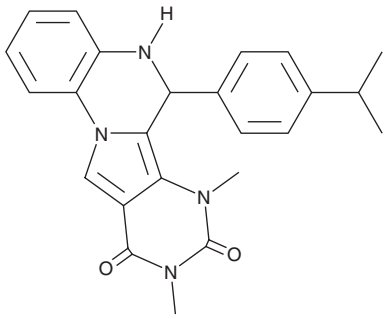
PRODUCT INFORMATION

D359-0396

Item No. 39386

CAS Registry No.:	1031977-31-7
Formal Name:	6,9-dihydro-7,9-dimethyl-6-[4-(1-methylethyl)phenyl]-pyrimido[4′,5′:3,4]pyrrolo[1,2-a]quinoxaline-8,10(5H,7H)-dione
MF:	$C_{24}H_{24}N_4O_2$
FW:	400.5
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

D359-0396 is supplied as a solid. A stock solution may be made by dissolving the D359-0396 in the solvent of choice, which should be purged with an inert gas. D359-0396 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

D359-0396 is an inhibitor of the NOD-like receptor protein 3 (NLRP3) inflammasome.[1] It is selective for NLRP3 over the absent in melanoma 2 (AIM2) and NLR family CARD domain-containing protein 4 (NLRC4) inflammasomes at 100 µM. D359-0396 inhibits pyroptosis induced by ATP (Item Nos. 14498 | 40182) or nigericin (Item No. 11437) in LPS-primed primary mouse bone marrow-derived macrophages (BMDMs). It also inhibits LPS- and ATP-induced NLRP3 self-oligomerization and apoptosis-associated speck-like protein (ASC) oligomerization *in vitro* at 20 µM. D359-0396 decreases disease severity in a mouse model of experimental autoimmune encephalomyelitis (EAE) and increases survival in a mouse model of septic shock.

Reference

1. Li, Z., Ji, S., Wu, C., *et al.* Identification of D359-0396 as a novel inhibitor of the activation of NLRP3 inflammasome. *Neurochem. Int.* **169:105565**, (2023).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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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