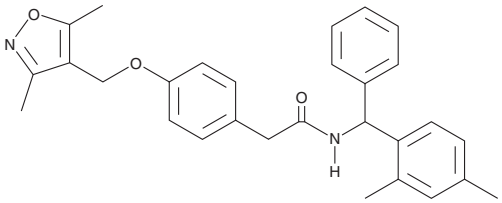
PRODUCT INFORMATION

TMP920

Item No. 46471

CAS Registry No.: 1421837-45-7
Formal Name: 4-[(3,5-dimethyl-4-isoxazolyl)methoxy]-N-[(2,4-dimethylphenyl)phenylmethyl]-benzeneacetamide
MF: $C_{29}H_{30}N_2O_3$
FW: 454.6
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

TMP920 is supplied as a solid. A stock solution may be made by dissolving the TMP920 in the solvent of choice, which should be purged with an inert gas. TMP920 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

TMP920 is an antagonist of retinoic acid receptor-related orphan receptor γt (RORγt; IC_{50} = 30 nM).[1] It selectively inhibits RORγt-dependent transactivation over transactivation of 22 other nuclear receptors in HEK293 cells at 10 µM. TMP920 reduces the differentiation of primary naïve $CD4^+$ T cells into T helper 17 (Th17) cells and reduces the levels of IL-17 in wild-type but not RORγt-deficient $CD4^+$ T cells isolated from mice in a model of experimental autoimmune encephalomyelitis (EAE). It reduces CNS-infiltrating mononuclear cells, disease severity, and disease progression in a mouse model of EAE at 500 µg/animal.

Reference

1. Xiao, S., Yosef, N., Yang, J., *et al.* Small-molecule RORγt antagonists inhibit T helper 17 cell transcriptional network by divergent mechanisms. *Immunity* **40(4)**, 477-489 (2014).

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
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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