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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](https://www.linkedin.com/company/szaboscandic) 

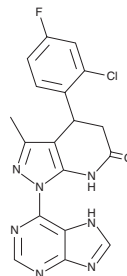
PRODUCT INFORMATION



TM-N1324

Item No. 37208

CAS Registry No.: 1144477-35-9
Formal Name: 4-(2-chloro-4-fluorophenyl)-1,4,5,7-tetrahydro-3-methyl-1-(9H-purin-6-yl)-6H-pyrazolo[3,4-b]pyridin-6-one
Synonyms: Compound 1324, Cpd1324
MF: C₁₈H₁₃ClFN₇O
FW: 397.8
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

TM-N1324 is supplied as a solid. A stock solution may be made by dissolving the TM-N1324 in the solvent of choice, which should be purged with an inert gas. TM-N1324 is soluble in ethanol and DMSO.

Description

TM-N1324 is an agonist of G protein-coupled receptor 39 (GPR39).¹ It is selective for GPR39 over a panel of 165 GPCRs, including the growth hormone (GH) secretagogue receptor (GHS-R) and motilin receptor, at 1 μM. TM-N1324 induces inositol phosphate accumulation in HEK293 cells expressing human GPR39 (EC₅₀s = 2 and 201 nM in the presence and absence of zinc, respectively) and cAMP accumulation in COS-7 cells expressing human GPR39 (EC₅₀ = 17 nM in the presence of zinc). It decreases ghrelin secretion and increases somatostatin secretion in isolated mouse gastric mucosa cells when used at a concentration of 1 μM. TM-N1324 (30 mg/kg) decreases food intake during the dark period and body weight in a mouse model of high-fat diet-induced obesity.²

References

1. Frimurer, T.M., Mende, F., Graae, A.-S., *et al.* Model-based discovery of synthetic agonists for the Zn²⁺-sensing G-protein-coupled receptor 39 (GPR39) reveals novel biological functions. *J. Med. Chem.* **60**(3), 886-898 (2017).
2. Grunddal, K.V., Diep, T.A., Petersen, N., *et al.* Selective release of gastrointestinal hormones induced by an orally active GPR39 agonist. *Mol. Metab.* **49**, 101207 (2021).

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.

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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