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Produktinformation

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

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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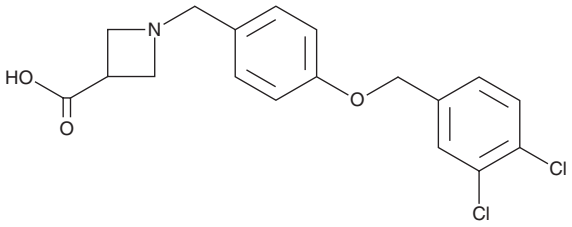
PRODUCT INFORMATION

A-971432

Item No. 25326

CAS Registry No.:	1240308-45-5
Formal Name:	1-[[4-[(3,4-dichlorophenyl)methoxy]phenyl]methyl]-3-azetidinecarboxylic acid
MF:	$C_{18}H_{17}Cl_2NO_3$
FW:	366.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 230 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

A-971432 is supplied as a crystalline solid. A stock solution may be made by dissolving the A-971432 in the solvent of choice, which should be purged with an inert gas. A-971432 is slightly soluble in chloroform.

Description

A-971432 is a sphingosine-1-phosphate receptor 5 ($S1P_5$) agonist that is selective for $S1P_5$ over $S1P_1$ and $S1P_3$ (IC_{50}s = 0.006, 0.362, and >10 µM, respectively).[1] It inhibits forskolin-induced cAMP production in CHO cells expressing $S1P_5$ (EC_{50} = 4.1 nM). A-971432 (1 µM) increases electrical resistance of hCMEC/D3 cells in an *in vitro* blood-brain barrier model, indicating enhanced barrier integrity, and attenuates blood-brain barrier leakage in an R6/2 transgenic mouse model of Huntington's disease when administered at a dose of 0.1 mg/kg.[1,2] A-971432 (0.1 mg/kg per day, i.p.) decreases the number of errors made in a horizontal ladder task and increases latency to fall in the rotarod test in R6/2 mice. It also increases spontaneous alternation in the t-maze in aged mice when administered at a dose of 0.1 mg/kg.[1]

References

1. Hobson, A.D., Harris, C.M., van der Kam, E.L., *et al.* Discovery of A-971432, an orally bioavailable selective sphingosine-1-phosphate receptor 5 ($S1P_5$) agonist for the potential treatment of neurodegenerative disorders. *J. Med. Chem.* **58(23)**, 9154-9170 (2015).
2. Di Pardo, A., Castaldo, S., Amico, E., *et al.* Stimulation of $S1PR_5$ with A-971432, a selective agonist, preserves blood-brain barrier integrity and exerts therapeutic effect in an animal model of Huntington's disease. *Hum. Mol. Genet.* **27(14)**, 2490-2501 (2018).

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