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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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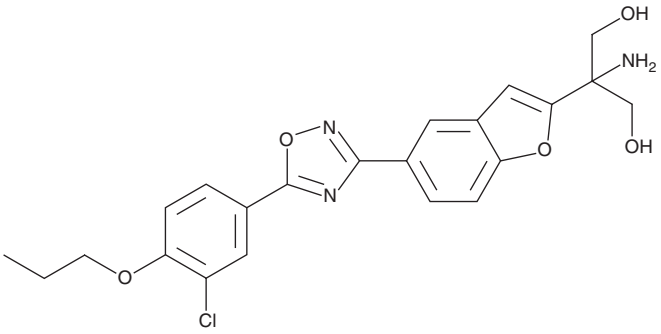
PRODUCT INFORMATION

AKP-11

Item No. 27670

CAS Registry No.:	1220973-37-4
Formal Name:	2-amino-2-[5-[5-(3-chloro-4-propoxyphenyl)-1,2,4-oxadiazol-3-yl]-2-benzofuranyl]-1,3-propanediol
MF:	$C_{22}H_{22}ClN_3O_5$
FW:	443.9
Purity:	≥95%
UV/Vis.:	λ_{max}: 225, 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

AKP-11 is supplied as a crystalline solid. A stock solution may be made by dissolving the AKP-11 in the solvent of choice, which should be purged with an inert gas. AKP-11 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of AKP-11 in these solvents is approximately 20 and 5 mg/ml, respectively.

Description

AKP-11 is an agonist of sphingosine-1-phosphate receptor 1 ($S1P_1$) with an EC_{50} value of 0.047 µM for [^{35}S]GTPγS binding to CHO-K1 cell membranes expressing the human receptor.[1] It decreases surface expression of $S1P_1$ and increases phosphorylation of Akt and ERK in CHO cells expressing $S1P_1$-HA when used at a concentration of 100 nM.[2] AKP-11 (1.3 and 3 mg/kg) reduces protein levels of IFN-γ and IL-17 in spinal cord tissue and decreases disease severity in a rat model of experimental autoimmune encephalomyelitis (EAE). It decreases peripheral counts of total lymphocytes and total, $CD4^+$, $CD8^+$, and $CD26L^+$ T cells in an EAE rat model, as well as in healthy control animals, when administered at a dose of 1.3 mg/kg.

References

1. Gill, G.S. and Grobelny, D.W. S1P receptors modulators and their use thereof. *Akaal Pharma Pty Ltd.* **USOO9707205** (2009).
2. Samuvel, D.J., Saxena, N., Dhindsa, J.S., *et al.* AKP-11 - A novel $S1P_1$ agonist with favorable safety profile attenuates experimental autoimmune encephalomyelitis in rat model of multiple sclerosis. *PLoS One* **10(10):e0141781** (2015).

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