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Produktinformation

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

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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

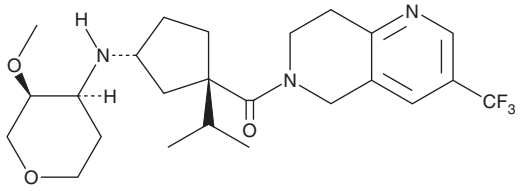
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

MK-0812

Item No. 21803

CAS Registry No.:	624733-88-6
Formal Name:	1,5-anhydro-2,3-dideoxy-3-[[(1R,3S)-3-[[7,8-dihydro-3-(trifluoromethyl)-1,6-naphthyridin-6(5H)-yl]carbonyl]-3-(1-methylethyl)cyclopentyl]amino]-4-O-methyl-D-erythro-pentitol
MF:	$C_{24}H_{34}F_3N_3O_3$
FW:	469.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 267 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

MK-0812 is supplied as a crystalline solid. A stock solution may be made by dissolving the MK-0812 in the solvent of choice, which should be purged with an inert gas. MK-0812 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of MK-0812 in these solvents is approximately 10, 1, and 15 mg/ml, respectively.

MK-0812 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MK-0812 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. MK-0812 has a solubility of approximately 0.04 mg/ml in a 1:20 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

MK-0812 is an antagonist of chemokine (C-C) motif receptor 2 (CCR2; IC_{50} = 5 nM for the human receptor).[1] It inhibits mammosphere formation of BT-549 breast cancer cells, an effect that is enhanced by the β-catenin inhibitor PNU 74654 (Item No. 16349).[2] MK-0812 (0.03, 0.1, and 0.3 mg/kg) increases chemokine (C-C) motif ligand 2 (CCL2) levels and decreases $CD11b^+$ monocytes in mouse blood.[3]

References

1. Abagyan, R., Christopoulos, A., de Esch, I.J.P., *et al. Chemokines. Chemokines and their receptors in drug discovery*. *Springer International Publishing*, Switzerland (2015).
2. Zhang, F., Li, P., Liu, S., *et al.* β-Catenin-CCL2 feedback loop mediates crosstalk between cancer cells and macrophages that regulates breast cancer stem cells. *Oncogene* **40(39)**, 5854-5865 (2021).
3. Min, S.-H., Wang, Y., Gonsiorek, W., *et al.* Pharmacological targeting reveals distinct roles for CXCR2/CXCR1 and CCR2 in a mouse model of arthritis. *Biochem. Biophys. Res. Commun.* **391(1)**, 1080-1086 (2010).

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