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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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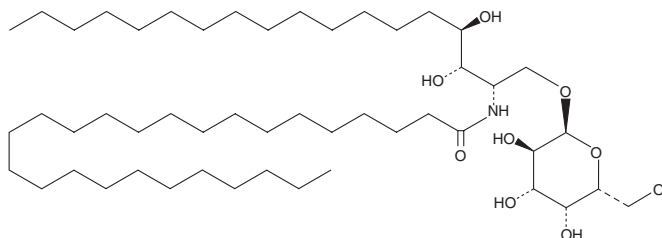
PRODUCT INFORMATION



KRN 7000

Item No. 11208

CAS Registry No.: 158021-47-7
Formal Name: N-[(1S,2S,3R)-1-[(α -D-galactopyranosyloxy)methyl]-2,3-dihydroxyheptadecyl]-hexacosanamide
MF: C₅₀H₉₉NO₉
FW: 858.3
Purity: \geq 96%
Supplied as: A solid
Storage: -20°C
Stability: \geq 1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

KRN 7000 is supplied as a solid. A stock solution may be made by dissolving the KRN 7000 in the solvent of choice, which should be purged with an inert gas. KRN 7000 is soluble in the organic solvent DMSO at a concentration of approximately 1 mg/ml.

Description

KRN 7000 is a potent synthetic α -galactosylceramide, which, in association with the antigen-presenting CD1d protein, activates NKT immune cells.^{1,2} As these cells have important roles in the rejection of malignant tumors and in the regulation of several autoimmune diseases, KRN 7000 has activity in many diseases, including cancer, lupus, diabetes, malaria, and tuberculosis.³⁻⁵

References

1. Van Der Vliet, H.J.J., Nishi, N., Koezuka, Y., *et al.* Effects of α -galactosylceramide (KRN7000), interleukin-12 and interleukin-7 on phenotype and cytokine profile of human Va24⁺ V β 11⁺ T cells. *Immunology* **98(4)**, 557-563 (1999).
2. Nicol, A., Nieda, M., Koezuka, Y., *et al.* Human invariant Va24⁺ natural killer T cells activated by α -galactosylceramide (KRN7000) have cytotoxic anti-tumour activity through mechanisms distinct from T cells and natural killer cells. *Immunology* **99(2)**, 229-234 (2000).
3. Morita, M., Motoki, K., Akimoto, K., *et al.* Structure-activity relationship of α -galactosylceramides against B16-bearing mice. *J. Med. Chem.* **38(12)**, 2176-2187 (1995).
4. Nakagawa, R., Motoki, K., Ueno, H., *et al.* Treatment of hepatic metastasis of the Colon26 adenocarcinoma with an α -galactosylceramide, KRN7000. *Cancer Res.* **58(6)**, 1202-1207 (1998).
5. Banchet-Cadecdu, A., Hénon, E., Dauchez, M., *et al.* The stimulating adventure of KRN 7000. *Org. Biomol. Chem.* **9(9)**, 3080-3104 (2011).

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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