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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



AVN944

Item No. 21284

CAS Registry No.: 297730-17-7

Formal Name: N-[(1S)-1-[3-[[[3-methoxy-4-(5-oxazolyl)phenyl]amino]carbonyl]amino]phenyl]ethyl]-carbamic acid, (1R)-1-(cyanomethyl)propyl ester

MF: C₂₅H₂₇N₅O₅

FW: 477.5

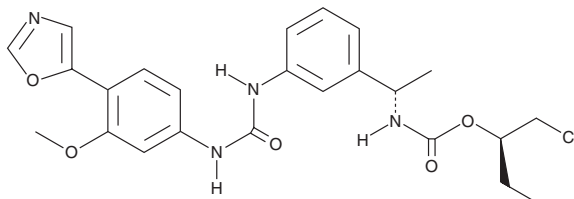
Purity: ≥98%

UV/Vis.: λ_{max}: 229, 286, 309 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

AVN944 is supplied as a crystalline solid. A stock solution may be made by dissolving the AVN944 in the solvent of choice. AVN944 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of AVN944 in these solvents is approximately 30 mg/ml.

AVN944 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AVN944 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AVN944 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

AVN944 is a selective, noncompetitive inhibitor of inosine-5'-monophosphate dehydrogenase (IMPDH; K_i = 6-10 nM for both human IMPDH isoforms), a rate-limiting enzyme involved in the *de novo* synthesis of purine nucleotides.¹ Inhibition of IMPDH results in disruption of DNA and RNA synthesis, inhibition of cell proliferation, and the induction of apoptosis. AVN944 has been shown to inhibit the proliferation of multiple myeloma cells *in vitro* by inducing caspase-independent apoptosis.¹ It is also reported to have antitumor properties in androgen-sensitive and androgen-independent prostate cancer cells *in vitro*.²

References

1. Ishitsuka, K., Hideshima, T., Hamasaki, M., *et al.* Novel inosine monophosphate dehydrogenase inhibitor VX-944 induces apoptosis in multiple myeloma cells primarily via caspase-independent AIF/Endo G pathway. *Oncogene* **24**(38), 5888-5896 (2005).
2. Floryk, D. and Thompson, T.C. Antiproliferative effects of AVN944, a novel inosine 5-monophosphate dehydrogenase inhibitor, in prostate cancer cells. *Int. J. Cancer* **123**(10), 2294-2302 (2008).

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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