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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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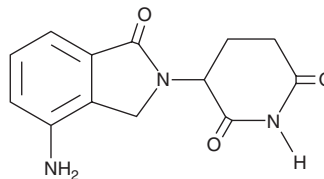
PRODUCT INFORMATION



Lenalidomide

Item No. 14643

CAS Registry No.: 191732-72-6
Formal Name: 3-(4-amino-1,3-dihydro-1-oxo-2H-isoindol-2-yl)-2,6-piperidinedione
MF: C₁₃H₁₃N₃O₃
FW: 259.3
Purity: ≥98%
UV/Vis.: λ_{max}: 206, 220, 311 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

Lenalidomide is supplied as a crystalline solid. A stock solution may be made by dissolving the lenalidomide in the solvent of choice. Lenalidomide is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of lenalidomide in these solvents is approximately 16 mg/ml.

Lenalidomide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, lenalidomide should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Lenalidomide has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Lenalidomide is an analog of thalidomide (Item No. 14610) that, at 10 μM, alters gene expression and cell viability in a range of cancer cell lines.¹ It also induces proliferation and enhances the functional capacity of T-lymphocytes, amplifying co-stimulatory signaling pathways.² Lenalidomide is effective in hematologic cancers, including lymphomas and myelomas.^{3,4}

References

1. Kim, K., An, S., Cha, H.J., *et al.* Lenalidomide induces apoptosis and alters gene expression in non-small cell lung cancer cells. *Oncol. Lett.* **5(2)**, 588-596 (2013).
2. McDaniel, J.M., Pinilla-Ibarz, J., and Epling-Burnette, P.K. Molecular action of lenalidomide in lymphocytes and hematologic malignancies. *Adv. Hematol.* **2012**, 513702 (2012).
3. Latif, T., Chauhan, N., Khan, R., *et al.* Thalidomide and its analogues in the treatment of multiple myeloma. *Exp. Hematol. Oncol.* **1(1)**, 27 (2012).
4. Merli, M., Ferrario, A., Basilico, C., *et al.* Novel agents in indolent lymphomas. *Ther. Adv. Hematol.* **4(2)**, 133-148 (2013).

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.

WARRANTY AND LIMITATION OF REMEDY

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