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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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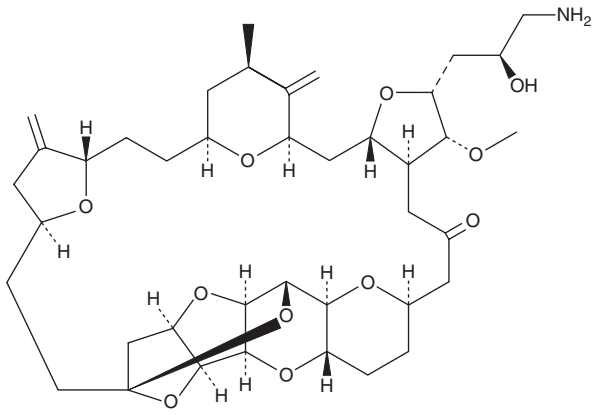
PRODUCT INFORMATION

Eribulin

Item No. 17351

CAS Registry No.: 253128-41-5
Formal Name: (2R,3R,3aS,7R,8aS,9S,10aR,11S,12R,13aR,13bS,15S,18S,21S,24S,26R,28R,29aS)-2-[(2S)-3-amino-2-hydroxypropyl]hexacosahydro-3-methoxy-26-methyl-20,27-*bis*(methylene)-11,15:18,21:24,28-triepoxy-7,9-ethano-12,15-methano-9H,15H-furo[3,2-i]furo[2',3':5,6]pyrano[4,3-b][1,4]dioxacyclopentacosin-5(4H)-one
Synonyms: B1939, E7389, ER 086526
MF: $C_{40}H_{59}NO_{11}$
FW: 729.9
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Eribulin is supplied as a solid. A stock solution may be made by dissolving the eribulin in the solvent of choice, which should be purged with an inert gas. Eribulin is sparingly soluble (1-10 mg/ml) in chloroform and slightly soluble (0.1-1 mg/ml) in methanol.

Description

Eribulin is an inhibitor of microtubule assembly and a derivative of the marine sponge macrolide halichondrin B.[1] It inhibits the proliferation of U937 human lymphoma cells, as well as induces cell cycle arrest at the G_2/M phase and, subsequently, apoptosis in the same cells when used at a concentration of 100 nM.[2] Eribulin (1.5 mg/kg per week) reduces tumor growth in a patient-derived xenograft (PDX) mouse model of cutaneous squamous cell carcinoma.[3] It also reduces tumor growth and increases survival in an intracerebral U87MG mouse xenograft model of glioblastoma when administered at a dose of 0.5 mg/kg three times per week.[4] Formulations containing eribulin have been used in the treatment of metastatic breast cancer.

References

1. Jordan, M.A., Kamath, K., Manna, T., *et al.* The primary antimitotic mechanism of action of the synthetic halichondrin E7389 is suppression of microtubule growth. *Mol. Cancer Ther.* **4(7)**, (2005).
2. Kuznetsov, G., Towle, M.J., Cheng, H., *et al.* Induction of morphological and biochemical apoptosis following prolonged mitotic blockage by halichondrin B macrocyclic ketone analog E7389. *Cancer Res.* **64(16)**, 5760-5766 (2004).
3. Hsu, C.-Y., Yanagi, T., Maeda, T., *et al.* Eribulin inhibits growth of cutaneous squamous cell carcinoma cell lines and a novel patient-derived xenograft. *Sci. Rep.* **13(1)**, 8650 (2023).
4. Takahashi, M., Miki, S., Fujimoto, K., *et al.* Eribulin penetrates brain tumor tissue and prolongs survival of mice harboring intracerebral glioblastoma xenografts. *Cancer Sci.* **110(7)**, 2247-2257 (2019).

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