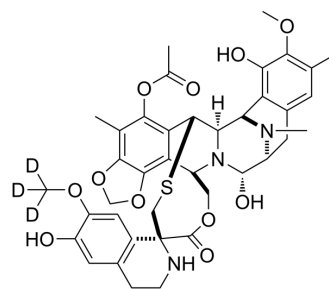


Trabectedin-d3

Cat. No.:	HY-50936S
Molecular Formula:	C ₃₉ H ₄₀ D ₃ N ₃ O ₁₁ S
Molecular Weight:	764.86
Target:	Reactive Oxygen Species; Apoptosis; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Apoptosis; Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description

Trabectedin D3 (Ecteinascidin 743 D3) is deuterium labeled Trabectedin. Trabectedin is a tetrahydroisoquinoline alkaloid with potent antitumor activity. Trabectedin binds to the minor groove of DNA, blocks transcription of stress-induced proteins, induces DNA backbone cleavage and cancer cells apoptosis, and increases the generation of ROS in MCF-7 and MDA-MB-453 cells. Trabectedin has the potential for soft tissue sarcoma and ovarian cancer treatment^{[1][2][3]}.

REFERENCES

- [1]. Takahashi N, et al. Sequence-dependent synergistic cytotoxicity of ecteinascidin-743 and NSC 125973 in human breast cancer cell lines in vitro and in vivo. *Cancer Res.* 2002 Dec 1;62(23):6909-15.
- [2]. Atmaca H, et al. A diverse induction of apoptosis by trabectedin in MCF-7 (HER2-/ER+) and MDA-MB-453 (HER2+/ER-) breast cancer cells. *Toxicol Lett.* 2013 Jun 20;221(2):128-136.
- [3]. Germano G, et al. Antitumor and anti-inflammatory effects of trabectedin on human myxoid liposarcoma cells. *Cancer Res.* 2010 Mar 15;70(6):2235-44.

Caution: Product has not been fully validated for medical applications. For research use only.

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