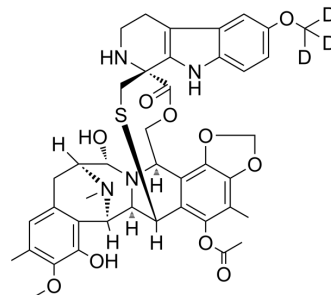


Lurbinectin-d₃

Cat. No.: HY-16293S
Molecular Formula: C₄₁H₄₁D₃N₄O₁₀S
Molecular Weight: 787.89
Target: DNA Alkylator/Crosslinker; DNA/RNA Synthesis
Pathway: Cell Cycle/DNA Damage
Storage: -20°C, protect from light, stored under nitrogen
 * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.57 mg/mL (4.53 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.2692 mL	6.3461 mL	12.6921 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Lurbinectin-d₃ is deuterium labeled Lurbinectin. Lurbinectin (PM01183) is a DNA minor groove covalent binder with potent anti-tumour activity; inhibits RMG1 and RMG2 cell growth with IC₅₀ values of 1.25 and 1.16 nM, respectively[1].

REFERENCES

- [1]. Takahashi R, et al. Preclinical Investigations of PM01183 (Lurbinectin) as a Single Agent or in Combination with Other Anticancer Agents for Clear Cell Carcinoma of the Ovary. PLoS One. 2016 Mar 17;11(3):e0151050.
- [2]. Leal JF, et al. PM01183, a new DNA minor groove covalent binder with potent in vitro and in vivo anti-tumour activity. Br J Pharmacol. 2010 Nov;161(5):1099-110.

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

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