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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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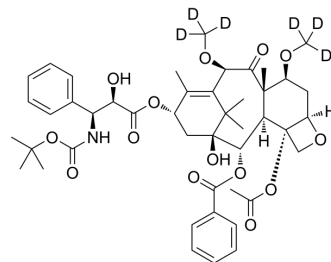
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Cabazitaxel-d₆

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-15459S | | |
| CAS No.: | 1383561-29-2 | | |
| Molecular Formula: | C ₄₅ H ₅₁ D ₆ NO ₁₄ | | |
| Molecular Weight: | 841.97 | | |
| Target: | Microtubule/Tubulin; Autophagy | | |
| Pathway: | Cell Cycle/DNA Damage; Cytoskeleton; Autophagy | | |
| Storage: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (118.77 mM)
 DMSO : ≥ 100 mg/mL (118.77 mM)
 * "≥" means soluble, but saturation unknown.

| | Solvent Concentration | Mass | | |
|------------------------------|--------------------------|-----------|-----------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 1.1877 mL | 5.9385 mL | 11.8769 mL |
| | 5 mM | 0.2375 mL | 1.1877 mL | 2.3754 mL |
| | 10 mM | 0.1188 mL | 0.5938 mL | 1.1877 mL |

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

BIOLOGICAL ACTIVITY

Description

Cabazitaxel-d₆ is the deuterium labeled Cabazitaxel. Cabazitaxel is a semi-synthetic derivative of the natural taxoid 10-deacetylbaccatin III with potential antineoplastic activity^{[1][2]}.

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
 [2]. Gdowski AS, et al. Bone-targeted cabazitaxel nanoparticles for metastatic prostate cancer skeletal lesions and pain. *Nanomedicine (Lond).* 2017 Sep;12(17):2083-2095.

[3]. Tai X, et al. Cabazitaxel and indocyanine green co-delivery tumor-targeting nanoparticle for improved antitumor efficacy and minimized drug toxicity. J Drug Target. 2016 Sep 9:1-29.

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

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