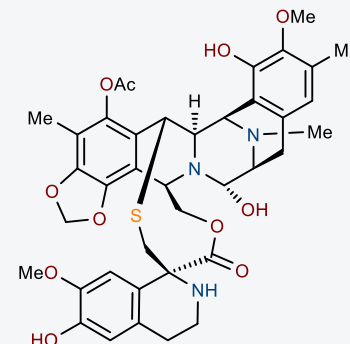


Lurbinectedin

Ma: *Angew. Chem. Int. Ed.* **2019**, 58 (12), 3972–3975.
<https://doi.org/10.1002/anie.201900035>.

- Et-743 is the first marine natural product used clinically as a drug (approved for the treatment of advanced soft tissue sarcoma).
- Binds the minor groove of DNA (especially GC-rich triplets) forming covalent bonds via its hemiaminal.
- Lurbinectedin received accelerated approval on June 15, 2020 for adult patients with metastatic small cell lung cancer with disease progression on or after platinum-based therapy.
- It has been granted orphan drug designation for the treatment of SCLC.
- Recommended dose is 3.2 mg/m² every 21 days.



Ecteinascidin 743

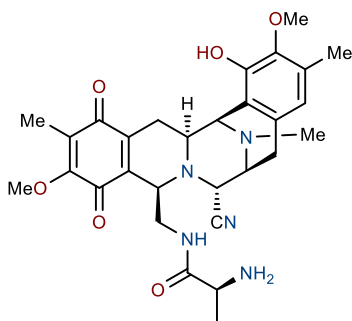
Corey: *J. Am. Chem. Soc.* **1996**, 118 (38), 9202–9203. <https://doi.org/10.1021/ja962480t>.

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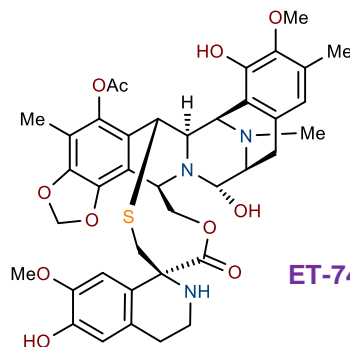
Williams: *J. Org. Chem.* **2008**, 73 (24), 9594–9600. <https://doi.org/10.1021/jo801159k>.



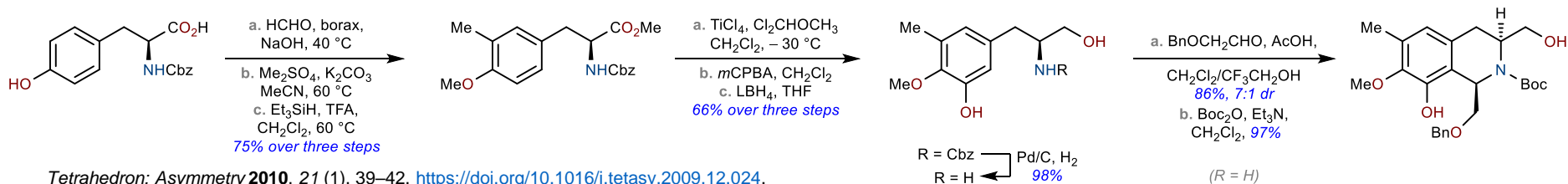
cyanosafrafrin B

- Semi-synthetic
- 1% overall yield
- 21 steps

Org. Lett. **2000**, 2 (16), 2545–2548. <https://doi.org/10.1021/ol0062502>.



ET-743



Tetrahedron: Asymmetry **2010**, 21 (1), 39–42. <https://doi.org/10.1016/j.tetasy.2009.12.024>.

