

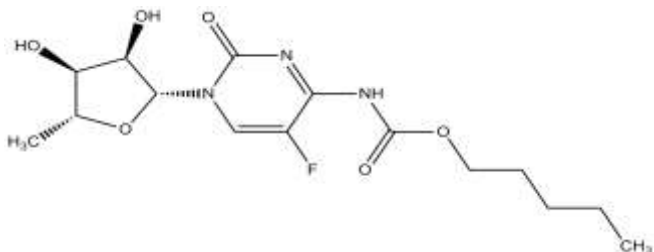
## Capecitabine

**ALTERNATE NAME:** Pentyl[1-(3,4-dihydroxy-5-methyl-tetrahydrofuran-2-yl)- 5-fluoro-2-oxo-1H-pyrimidin- 4-yl]aminomethanoate; captabin; Ro 09-1978; Xabine

**CATALOG #:** 1741-100, 1000

**AMOUNT:** 100 mg, 1 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>15</sub>H<sub>22</sub>FN<sub>3</sub>O<sub>6</sub>

**MOLECULAR WEIGHT:** 359.35

**CAS NUMBER:** 154361-50-9

**APPEARANCE:** White to off-white solid

**SOLUBILITY:** DMSO (100 mg/ml) or EtOH (10 mg/ml)

**PURITY:** ≥99% by HPLC

**STORAGE:** Store at -20 °C

**DESCRIPTION:** A pre-prodrug of 5-fluorouracil (5-FU). After oral uptake, capecitabine is first metabolized to 5'-deoxy-5-fluorocytidine (5'-DFCR), which occurs mainly in the liver by carboxyl-esterase. The metabolite is converted to 5'-deoxy-5-fluorouridine (5'-DFUR) by cytidine deaminase in liver and tumor tissue. Then 5'-DFUR is converted to 5-FU intracellularly by thymidine phosphorylase, which is often expressed in tumor tissue.

**REFERENCE:** Miwa, M., *et al.* (1998). *Eur. J. Cancer* **34**, 1274-1281.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

**RELATED PRODUCTS:**

- Bexarotene (Cat. No. 1575-5, 50)
- Carboplatin (Cat. No. 1553-100)
- Cisplatin (Cat. No. 1550-100,1000)
- Daunorubicin.HCl (1524-10,50,500)
- Doxorubicin HCl (Cat. No. 1527-5)
- Nedaplatin (Cat. No. 1576-5)
- Oxaliplatin (Cat. No. 1577-25)
- Paclitaxel (Cat. No. 1567-25)
- Tamoxifen Citrate (Cat. No. 1551-1000)