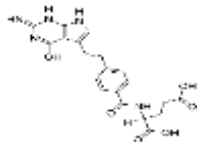


PRODUCT: Pemetrexed**ALTERNATE NAME:** *N*-[4-[2-(2-Amino-4,7-dihydro-4-oxo-3*H*-pyrrolo[2,3-*d*]pyrimidin-5-yl)ethyl]benzoyl]-L-glutamic acid**CATALOG NUMBER:** B1862-50, 250**AMOUNT:** 50 mg, 250 mg**STRUCTURE:****MOLECULAR FORMULA:** C₂₀H₂₁N₅O₆**MOLECULAR WEIGHT:** 427.41**CAS NUMBER:** 137281-23-3**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>40 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20 °C. Protect from air and light**DESCRIPTION:** Pemetrexed is a high affinity dihydrofolate reductase (DHFR) inhibitor (*K_i* = 7 nM). Also inhibits thymidylate synthase, AICART and glycineamide ribonucleotide formyltransferase (*K_i* values are 109 nM, and 3.5 μM and 9.3 μM, respectively). Inhibits proliferation of cancer cell lines *in vitro*.**REFERENCES:** Rothbart, S.B., *et al.* (2010). *Cancer Res.* **70**, 10299-10309.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**Dihydrofolate Reductase Inhibitor Screening Kit (Colorimetric) (**K247**)Dihydrofolate Reductase Activity Kit (Colorimetric) (**K246**)Dihydrofolate Reductase (DHFR) (Human) ELISA Kit (**E4301**)Dihydrofolate Reductase (DHFR) (Mouse) ELISA Kit (**E4302**)Dihydrofolate Reductase (DHFR) (Rat) ELISA Kit (**E4303**)Human Recombinant DHFR (**6382**)Mouse Recombinant DHFR (**6383**)**USAGE:** ***FOR RESEARCH USE ONLY! Not to be used in humans***