

Gimeracil, Dihydropyrimidine dehydrogenase inhibitor

Catalog	Unit
TBI4601-25MG	25 mg
TBI4601-100MG	100 mg

Product Details

Formal Name: 5-Chloro-4-hydroxypyridine-2(1H)-one

Molecular Formula: C₅H₄ClNO₂

Formula Weight: 145.54

CAS Number: 103766-25-2

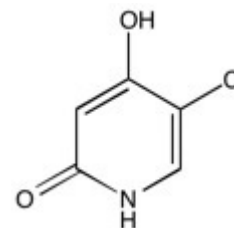
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 5 mg/ml).

Storage: -20°C

Stability: ≥ 1 year.



Applications

Dihydropyrimidine dehydrogenase inhibitor

Functions

Gimeracil is a dihydropyrimidine dehydrogenase (DPD) inhibitor. DPD is involved in the degradation of pyrimidine-based chemotherapeutic drugs such as 5-fluorouracil (5-FU). Gimeracil is used along with 5-FU or Tegafur to prolong circulating concentrations of the drugs. Gimeracil has also been shown to act as a radiosensitizer via inhibition of homologous recombination in the repair of DNA double strand breaks.

Application Procedures

First dissolved in DMSO (up to 5 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.