

Raltitrexed, Thymidylate synthase inhibitor

Catalog	Unit
TBI4052-10MG	10 mg
TBI4052-50MG	50 mg

Product Details

Formal Name: (2S)-2-[[5-[Methyl-[(2-methyl-4-oxo-3H-quinazolin-6-yl)methyl]amino]thiophene-2-carbonyl]amino]pentanedioic acid

Alternate Names: ICI D 1694; ZD1694

Molecular Formula: C₂₁H₂₂N₄O₆S

Formula Weight: 458.5

CAS Number: 112887-68-0

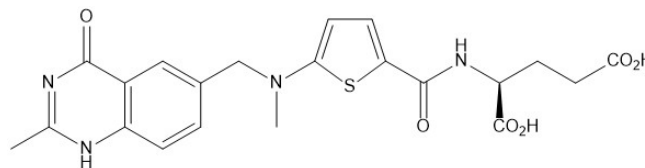
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Thymidylate synthase inhibitor

Functions

Inhibitor of thymidylate synthase with significantly increased potency in many cancer cell lines when compared with 5-fluorouracil. It is also an inhibitor of the methyltransferase G9a (IC₅₀ = 120 nM) and decreased Aβ aggregates in *C. elegans* indicating therapeutic potential for the treatment of Alzheimer's disease.

Application Procedures

First dissolved in DMSO (25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored under an inert atmosphere at -20°C for up to 3 months.

For research use only.