

Catalog	Unit
TBI4056-5MG	5 mg
TBI4056-25MG	25 mg

Product Details

Formal Name: 5-[(4S)-4-Hydroxy-4-methyl-1,2-oxazolidine-2-carbonyl]-3-methyl-6-[[5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]-1-propan-2-ylthieno[2,3-d]pyrimidine-2,4-dione

Molecular Formula: C₂₁H₂₄F₃N₅O₅S

Formula Weight: 515.5

CAS Number: 1448671-31-5

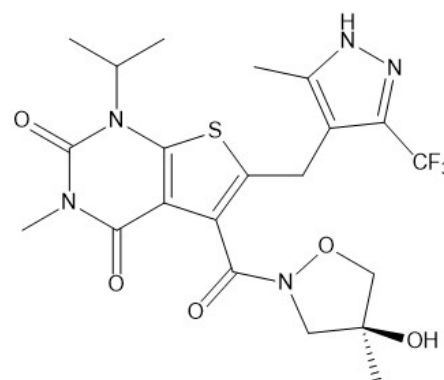
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to at least 40 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

MCT1 inhibitor

Functions

Potent inhibitor (K_i's: 1.6 – 3.2 nM) of monocarboxylate transporter 1 (MCT1) with approximately 6-fold selectivity over MCT2. Active in multiple cancer models as monotherapy or in combination with other chemotherapeutics. AZD3965 improved CAR-T cell therapy against B-cell malignancies. It inhibited lipid biosynthesis and increased tumor infiltration of dendritic and natural killer cells. Combination therapy with immune checkpoint blockade suppressed lactate-mediated immunosuppression in the tumor microenvironment.

Application Procedures

First dissolved in DMSO (up to at least 40 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.