
Catalog	Unit
TBI5401-5MG	5 mg
TBI5401-25MG	25 mg

Product Details

Formal Name: 2-[[[(benzoylamino)thioxomethyl]amino]-4,7-dihydro-5,5-dimethyl-5H-thieno[2,3-c]pyran-3-carboxylic acid

Alternate Names: ML282

Molecular Formula: C₁₈H₁₈N₂O₄S₂

Formula Weight: 390.50

CAS Number: 314042-01-8

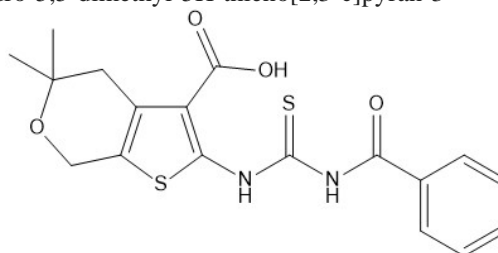
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (40 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Rab7 GTPase inhibitor

Functions

A specific competitive inhibitor of nucleotide binding to Rab7, an endosome-localized small GTPase. It interferes with the Rab7-RILP interaction, locking the GTPase in an inactive conformation. Impairs B cell class switching and plasma cell survival dampening, the pathogenic autoantibody response in lupus. Inhibits the Arf-like small GTPase Arl8b, blocking cellular egress of β -coronaviruses (SARS-CoV-2) which utilize a lysosomal exocytosis pathway.

Application Procedures

First dissolved in DMSO (40 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

For research use only.