
Catalog	Unit
TBI5075-5MG	5 mg
TBI5075-25MG	25 mg

Product Details

Formal Name: [(Z)-1-thiophen-2-ylethylideneamino]thiourea

Molecular Formula: C₇H₉N₃S₂

Formula Weight: 199.30

CAS Number: 433212-75-0

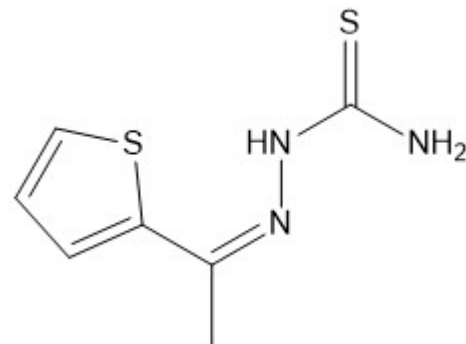
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to at least 100 mg/ml); or Ethanol (10 mg/ml, warm)

Storage: -20°C

Stability: ≥ 2 years.



Applications

SARS-CoV viral entry inhibitor

Functions

An inhibitor of SARS coronavirus (SARS-CoV) replication by blocking viral entry (EC₅₀=6.7μM). SSAA09E1 was discovered by screening a chemical library for blocking of entry of HIV-1 pseudotyped with SARS-CoV surface glycoprotein S. The compound acts via inhibition of cathepsin L (IC₅₀=5.33 μM), a host protease required for processing of SARS-S during viral entry. Cathepsin B is not inhibited. The compound was also shown to inhibit tyrosinase (IC₅₀=0.14 μM).

Application Procedures

First dissolved in DMSO (up to at least 100 mg/ml); or Ethanol (10 mg/ml, warm), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.