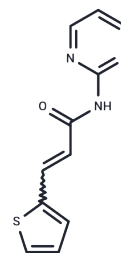


## NP-BTA

## Chemical Properties

CAS No. :	544420-99-7
Formula:	C <sub>11</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	231.27
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	NP-BTA, an allosteric inhibitor of glutaminyl-tRNA synthetase (GlnRS), demonstrates antifungal activity against <i>Candida albicans</i> , with a MIC <sub>50</sub> of 6.25 μM [1].
Targets(IC <sub>50</sub> )	Antifungal
In vitro	NP-BTA (300 μM) inhibits GlnRS by binding with His6-Gln4 (K <sub>D</sub> of 180 nM), thereby preventing the aminoacylation of tRNA Gln, with an IC <sub>50</sub> of 106 nM [1].
In vivo	NP-BTA (0.096-0.27 g 2% NP-BTA cream, applied twice daily for 7 days) helps protect immunosuppressed CD-1 mice from infection by <i>T. mentagrophytes conidia</i> [1]. Animal Model: Immunosuppressed CD-1 mice infected with <i>T. mentagrophytes</i> [1] Dosage: 0.096-0.27 g 2% NP-BTA cream Administration: Topical application, twice daily for 7 days Result: Reduced fungal burden.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.324 mL	21.6198 mL	43.2395 mL
5 mM	0.8648 mL	4.324 mL	8.6479 mL
10 mM	0.4324 mL	2.162 mL	4.324 mL
50 mM	0.0865 mL	0.4324 mL	0.8648 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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