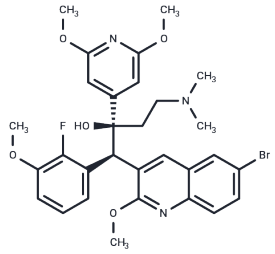
# Data Sheet (Cat.No.T5997)

TargetMol

TBAJ-587

## Chemical Properties



CAS No. : 2252316-16-6

Formula: C30H33BrFN3O5

Molecular Weight: 614.5

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 | TBAJ-587 is a potent anti-tuberculosis agent. TBAJ-587 inhibits M.tb strain H37Rv growth with MIC90s of 0.006 and <0.02 μg/mL in MABA and LORA assay, respectively. BAJ-587 has more potent activity against M. tuberculosis and better efficacy in animal models of TB. |
| Targets(IC50) | Antibacterial,Antibiotic |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 30 mg/mL (48.82 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.25 mM),Sonication is recommended.<br>*Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.6273 mL | 8.1367 mL | 16.2734 mL |
| 5 mM | 0.3255 mL | 1.6273 mL | 3.2547 mL |
| 10 mM | 0.1627 mL | 0.8137 mL | 1.6273 mL |
| 50 mM | 0.0325 mL | 0.1627 mL | 0.3255 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.

Reference

Sutherland H S , Tong A S T , Choi P J , et al. 3,5-Dialkoxypyridine analogues of bedaquiline are potent antituberculosis agents with minimal inhibition of the hERG channel[J]. Bioorganic & Medicinal Chemistry, 2019.



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