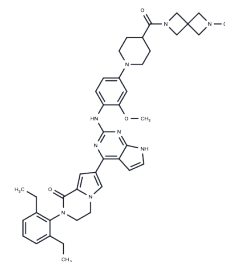


TTK inhibitor 3

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 2820453-41-4 |
| Formula: | C42H49N9O3 |
| Molecular Weight: | 727.9 |
| Storage: | Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|--|
| Description | TTK inhibitor 3 (compound 25) is a selective inhibitor of TTK (Threonine Tyrosine Kinase) with an IC50 of 3.0 nM for TTK and 16.0 nM for CAL-51 cells. It inhibits tumor growth in CAL-51 xenograft models and TNBC (triple-negative breast cancer) PDX models. |
| Targets(IC50) | Tyrosine Kinases |
| In vitro | TTK inhibitor 3 (compound 25) exhibited an IC50 of 3.0 nM against TTK and an IC50 of 16.0 nM against CAL-51 cells after 3 days of co-incubation [1]. |
| In vivo | Methods: In the CAL-51 mouse xenograft model, TTK inhibitor 3 was administered intravenously at 30, 40, and 50 mg/kg weekly for two weeks. Results: TTK inhibitor 3 exhibited dose-dependent increases in exposure and efficacy, with all treatment groups demonstrating significant (>60%) tumor growth inhibition and no observable body weight loss [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.3738 mL | 6.8691 mL | 13.7382 mL |
| 5 mM | 0.2748 mL | 1.3738 mL | 2.7476 mL |
| 10 mM | 0.1374 mL | 0.6869 mL | 1.3738 mL |
| 50 mM | 0.0275 mL | 0.1374 mL | 0.2748 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

Elsner J, et al. Structure-Guided Optimization Provides a Series of TTK Protein Inhibitors with Potent Antitumor Activity. J Med Chem. 2021;64(17):12670-12679.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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