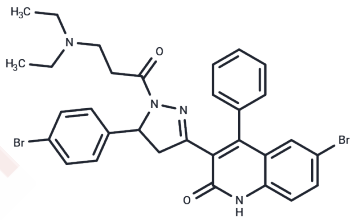
Data Sheet (Cat.No.T14902)

TargetMol

CCT020312

Chemical Properties



CAS No. : 324759-76-4

Formula: C31H30Br2N4O2

Molecular Weight: 650.4

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	CCT020312 (0-9 μM, 24 h) treatment of medium HT29 cells for 24 h resulted in a concentration-dependent loss of P-S608-pRB signaling with linear response values between 1.8 and 6.1 μM.
Targets(IC50)	Autophagy,PERK
In vitro	**METHODS**: CCT020312 (0-9 μM, 24 h) treated medium HT29 cells for 24 h. Ser608 pRB phosphorylation was quantified using a cell-based immunoassay. **RESULTS** Concentration-dependent loss of P-S608-pRB signaling was observed with linear response values between 1.8 and 6.1 μM. [1]
In vivo	**METHODS**: CCT020312 (2 mg/kg, intraperitoneal injection, starting at 17 weeks for 6 weeks) was used to treat P301S tau transgenic mice to test for mouse-specific visuospatial memory deficits. **RESULTS** P301S tau transgenic mice performed significantly better in the Morris water maze. [2]

Solubility Information

Solubility	DMSO: 145 mg/mL (222.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (6.15 mM),Sonication is recommended. *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	1.5375 mL	7.6876 mL	15.3752 mL
5 mM	0.3075 mL	1.5375 mL	3.075 mL
10 mM	0.1538 mL	0.7688 mL	1.5375 mL
50 mM	0.0308 mL	0.1538 mL	0.3075 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

Stockwell SR, et al. Mechanism-based screen for G1/S checkpoint activators identifies a selective activator of EIF2AK3/PERK signalling. PLoS One. 2012;7(1):e28568.
Bruch J, et al. PERK activation mitigates tau pathology in vitro and in vivo. EMBO Mol Med. 2017 Mar;9(3):371-384.