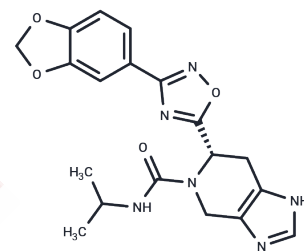


CBK289001

## Chemical Properties

CAS No. : 1212663-24-5  
 Formula: C<sub>19</sub>H<sub>20</sub>N<sub>6</sub>O<sub>4</sub>  
 Molecular Weight: 396.4  
 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	CBK289001 is a tartrate-resistant acid phosphatase (TRAP/ACP5) inhibitor that inhibits TRAP 5b MV, TRAP 5b OX, and TRAP 5a OX with IC <sub>50</sub> values of 125 μM, 4.21 μM, and 14.2 μM, respectively.
Targets(IC <sub>50</sub> )	Others, Protease-activated Receptor
In vitro	CBK289001 exclusively impedes TRAP3-mediated high cell migration in a dose-dependent manner, demonstrating significant migration inhibition starting 24 hours post-treatment and achieving reduced migration velocity over 30 hours at concentrations of 20 μM or 100 μM. This indicates CBK289001 effectively hinders TRAP-dependent migration in TRAP-overexpressing MDA-MB-231 breast cancer cells.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5227 mL	12.6135 mL	25.227 mL
5 mM	0.5045 mL	2.5227 mL	5.0454 mL
10 mM	0.2523 mL	1.2614 mL	2.5227 mL
50 mM	0.0505 mL	0.2523 mL	0.5045 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

Anja Reithmeier, et al. Identification of inhibitors of Tartrate-resistant acid phosphatase (TRAP/ACP5) activity by small-molecule screening. Chem Biol Drug Des. 2018 Jul;92(1):1255-1271.

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