

AZA197

## Chemical Properties

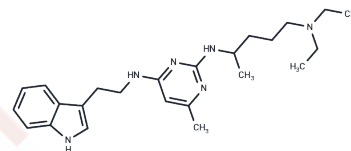
CAS No. : 1249398-09-1

Formula: C<sub>24</sub>H<sub>36</sub>N<sub>6</sub>

Molecular Weight: 408.58

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |  |
|---------------|--|
| Description   | AZA197 (AZA-197) is a selective Cdc42 inhibitor. It acts by inhibiting primary colon cancer growth and prolonging survival in a preclinical mouse xenograft model by downregulation of PAK1 activity.  |
| Targets(IC50) | Apoptosis,ERK,CDK,PAK,Ras  |
| In vitro      | In SW620 and HT-29 human colon cancer cells, AZA197(1, 2, 5 and 10 μM; 24 h) demonstrated selectivity for Cdc42 without inhibition of Rac1 or RhoA GTPases from the same family. AZA197 suppressed colon cancer cell proliferation, cell migration and invasion and increased apoptosis associated with down-regulation of the PAK1 and ERK signaling pathways in vitro[1].                |
| In vivo       | Systemic AZA197(i.p. injections with 100 μg) treatment reduced tumor growth in vivo and significantly increased mouse survival in SW620 tumor xenografts. Ki-67 staining and tissue TUNEL assays showed that both inhibition of cell proliferation and induction of apoptosis associated with reduced PAK/ERK activation contributed to the AZA197-induced therapeutic effects in vivo[1]. |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: Slightly soluble<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
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### Preparing Stock Solutions

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|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 2.4475 mL  | 12.2375 mL | 24.475 mL   |
| 5 mM  | 0.4895 mL  | 2.4475 mL  | 4.895 mL    |
| 10 mM | 0.2448 mL  | 1.2238 mL  | 2.4475 mL   |
| 50 mM | 0.049 mL   | 0.2448 mL  | 0.4895 mL   |

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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

Zins K, et al. Targeting Cdc42 with the small molecule drug AZA197 suppresses primary colon cancer growth and prolongs survival in a preclinical mouse xenograft model by downregulation of PAK1 activity. *J Transl Med.* 2013 Nov 27;11:295.

Goodman RB, et al. Identification of two neutrophil chemotactic peptides produced by porcine alveolar macrophages. *J Biol Chem.* 1991 May 5;266(13):8455-63. PubMed PMID: 1850745.

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