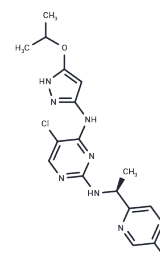


AZ-23

## Chemical Properties

CAS No. :	915720-21-7
Formula:	C <sub>17</sub> H <sub>19</sub> ClFN <sub>7</sub> O
Molecular Weight:	391.83
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	AZ-23 is an inhibitor of ATP-competitive and Trk kinase A/B/C. For TrkA, TrkB, FGFR1, Flt3, Ret, MuSk, Lck, the IC <sub>50</sub> s values are 2 nM, 8 nM, 24 nM, 52 nM, 55 nM, 84 nM, 99 nM, respectively.
Targets(IC <sub>50</sub> )	Trk receptor
In vitro	AZ-23 selectively and potently inhibits Trk phosphorylation in cells, with an EC <sub>50</sub> of 2 nM for Trk-mediated survival. It also inhibits Trk-dependent survival in MCF10ATrkA-Δ and TF-1 cell lines[1].
In vivo	Following oral administration in a TrkA-driven allograft model, AZ-23 demonstrates effective in vivo inhibition of TrkA kinase and efficacy in mice. It also significantly inhibits tumor growth in a Trk-expressing xenograft model of neuroblastoma[1].

## Solubility Information

Solubility	DMSO: 125 mg/mL (319.02 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 (10.21 mM), Sonication is recommended. <i>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.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.5521 mL	12.7606 mL	25.5213 mL
5 mM	0.5104 mL	2.5521 mL	5.1043 mL
10 mM	0.2552 mL	1.2761 mL	2.5521 mL
50 mM	0.051 mL	0.2552 mL	0.5104 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

Thress K, et al. Identification and preclinical characterization of AZ-23, a novel, selective, and orally bioavailable inhibitor of the Trk kinase pathway. Mol Cancer Ther. 2009 Jul; 8(7):1818-27.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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