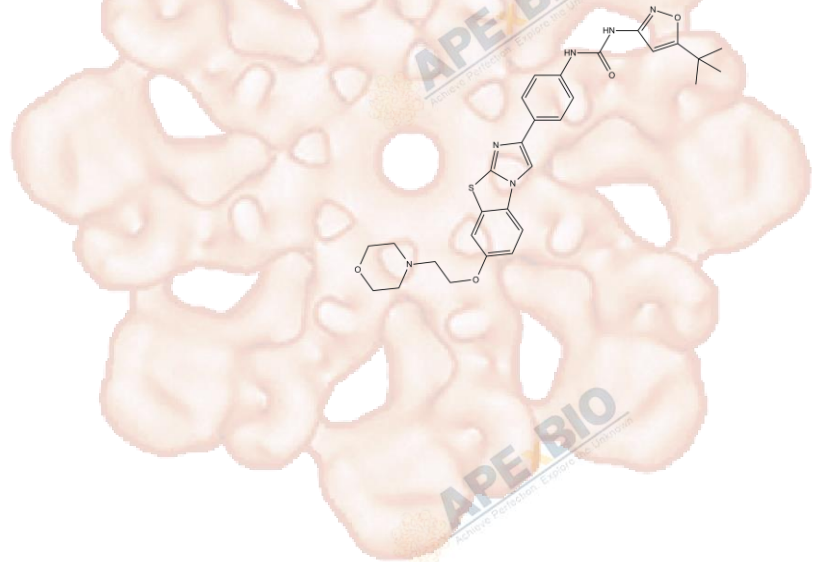


# Product Data Sheet

## Quizartinib (AC220)

<b>Cat. No.:</b>	A5793
<b>CAS No.:</b>	950769-58-1
<b>Formula:</b>	C <sub>29</sub> H <sub>32</sub> N <sub>6</sub> O <sub>4</sub> S
<b>M.Wt:</b>	560.67
<b>Synonyms:</b>	
<b>Target:</b>	Tyrosine Kinase
<b>Pathway:</b>	FLT3
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥28.03 mg/mL in DMSO; insoluble in EtOH; insoluble in H<sub>2</sub>O

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		1.7836 mL	8.9179 mL	17.8358 mL
	5 mM		0.3567 mL	1.7836 mL	3.5672 mL
	10 mM		0.1784 mL	0.8918 mL	1.7836 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

FLT3 inhibitor,potent and selective

IC<sub>50</sub> & Target

1.1 nM (Flt3ITD), 4.2 nM (Flt3wt)

In Vitro

#### Cell Viability Assay

Cell Line:	MV4-11 and RS4;11 cells
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	20 μM; 72 hrs

	Applications:	In MV4-11 and RS4;11 cells, AC220 inhibited the autophosphorylation of FLT3, with the IC50 values of 1.1 nM and 4.2 nM, respectively.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Mice bearing MV4-11 tumors
	Dosage form:	10 mg/kg; p.o.
	Applications:	In mice bearing MV4-11 tumors, AC220 inhibited FLT3 autophosphorylation in a time-dependent manner.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Zarrinkar PP, Gunawardane RN, Cramer MD, et al. AC220 is a uniquely potent and selective inhibitor of FLT3 for the treatment of acute myeloid leukemia (AML). *Blood*, 2009, 114(14): 2984-2992.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

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