

Product Name: KW 2449 Revision Date: 08/23/2021 Product Data Sheet

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KW 2449

Cat. No.:	A4123
CAS No.:	1000669-72-6
Formula:	C20H20N4O
M.Wt:	332.4
Synonyms:	
Target:	Tyrosine Kinase
Pathway:	FLT3
Storage:	Store at -20°C

Solvent & Solubility

		Mass	4.00.00	F	40
In Vitro Preparing Stock Solutions		Solvent Concentration	1mg	5mg	10mg
	1 mM	3.0084 mL	15.0421 mL	30.0842 mL	
		5 mM	0.6017 mL	3.0084 mL	6.0168 mL
	Bine Uniconn	10 mM	0.3008 mL	1.5042 mL	3.0084 mL
	Please refer to the	solubility information to select the	appropriate solve	nt.	

Shortsummary Multikinase inhibitor

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IC₅₀ & Target

6.6 nM (FLT3), 1 nM (FLT3 (D835Y)), 14 nM (Abl), 4 nM (Abl (T315I)), 48 nM (Aurora A), 36 nM (FGFR1)

and/or shake it in the ultrasonic bath for a while. Stock solution can be stored

Cell Viability Assay

Reacting conditions:

In	Vitro

Cell Line:	MOLM-13 cells	All and Party
Preparation method:	The solubility of this compound	in DMSO is >16.6mg/mL. General tips for
	obtaining a higher concentration: I	Please warm the tube at 37°C for 10 minutes

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below -20°C for several months.

0.01-0.3 $\mu M;$ 24, 48, and 72 h; 37°C

	Applications:	In MOLM-13 cells, KW-2449 inhibited the phosphorylation of FLT3 (P-FLT3)
		and its downstream molecule phospho-STAT5 (P-STAT5) in a dose-dependent
		way. Furthermore, KW-2449 increased the percentage of cells in the G1 phase
		and reduced the percentage of cells in the S phase, resulting in the increase of
	Blow	apoptotic cell population.
	Animal experiment	D El consta
	Animal models:	SCID mice bearing the subcutaneous MOLM-13 tumor
	Dosage form:	2.5, 5.0, 10, and 20 mg/kg; orally administered; twice a day for 14 days
	Applications:	In SCID mice bearing the subcutaneous MOLM-13 tumor, KW-2449 completely
		reduced the levels of P-FLT3 and P-STAT5 in the tumor from 4 to 12 hours.
In Vivo		While the phosphorylation of FLT3 and STAT5 returned to almost the basa
		level at 24 hours. KW-2449 showed a potent and significant antitumor effect in
		a dose-dependent way.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
	Breaman	slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.
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Product Citations

See more customer validations on www.apexbt.com.



[1] Shiotsu Y, Kiyoi H, Ishikawa Y, Tanizaki R, Shimizu M, Umehara H, Ishii K, Mori Y, Ozeki K, Minami Y, Abe A, Maeda H, Akiyama T, Kanda Y, Sato Y, Akinaga S, Naoe T. KW-2449, a novel multikinase inhibitor, suppresses the growth of leukemia cells with FLT3 mutations or T315I-mutated BCR/ABL translocation. Blood. 2009 Aug 20;114(8):1607-17.

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 APExBIO 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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