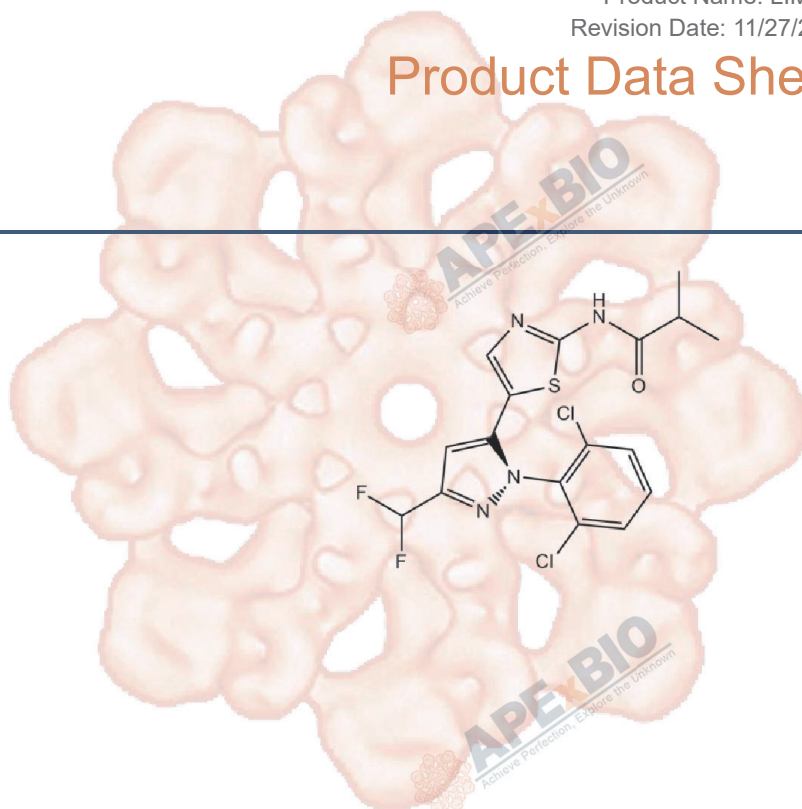


Product Data Sheet

LIMKi 3

Cat. No.:	B7707
CAS No.:	1338247-35-0
Formula:	C17H14Cl2F2N4OS
M.Wt:	431.29
Synonyms:	
Target:	Others
Pathway:	Others
Storage:	Store at -20°C



Solvent & Solubility

≥44.6 mg/mL in DMSO; ≥6.26 mg/mL in EtOH with ultrasonic; insoluble in H2O

In Vitro	Preparing Stock Solutions	Mass			
		Solvent	1mg	5mg	10mg
		Concentration			
		1 mM	2.3186 mL	11.5931 mL	23.1863 mL
		5 mM	0.4637 mL	2.3186 mL	4.6373 mL
		10 mM	0.2319 mL	1.1593 mL	2.3186 mL

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary	LIMK1 and LIMK2 inhibitor	
IC ₅₀ & Target		
In Vitro	Cell Viability Assay	
	Cell Line:	Human breast cancer cells MDA-MB-231
	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:	24 h, 0~10 μM

	Applications:	In MDA-MB-231 cells, LIMKi 3 potently inhibited LIMK activity, the treatment with LIMKi 3 (0~10 μ M) resulted in a dose-dependent inhibition of cofilin phosphorylation, induced a reduction in F-actin signal intensity and serum-stimulated SRF activity. LIMKi 3 had no effect on microtubule number or organization. 3 μ M LIMKi 3 significantly inhibited matrigel invasion in the 3D matrigel invasion assay, 0.1~3 μ M LIMKi 3 had no effect on wound healing. 10 μ M LIMKi 3 significantly reduced the area of gelatin degradation per cell. Although motility was unaffected, LIMK inhibition by LIMKi 3 impaired matrix protein degradation.
In Vivo	Animal experiment Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Scott R W, Hooper S, Crighton D, et al. LIM kinases are required for invasive path generation by tumor and tumor-associated stromal cells.[J]. Journal of Cell Biology, 2010, 191(1):169-85.

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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