

Product Name: CHIR-090 Revision Date: 01/10/2021

Product Data Sheet

CHIR-090

Cat. No.: A3307

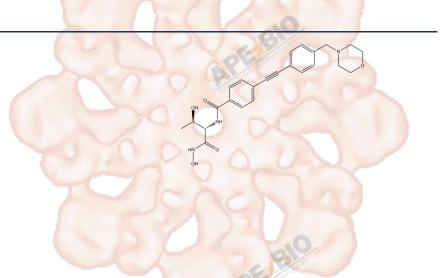
CAS No.: 728865-23-4
Formula: C24H27N3O5

M.Wt: 437.49

Synonyms: CHIR 090;CHIR090

Target: Others
Pathway: LpxC

Storage: Store at -20°C



Solvent & Solubility

≥21.85 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

In Vitro

Shortsummary

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.2858 mL	11.4288 mL	22.8577 mL
	5 mM	0.4572 mL	2.2858 mL	4.5715 mL
	10 mM	0.2286 mL	1.1429 mL	2.2858 mL

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

Biological Activity

Potent LpxC inhibitor

IC ₅₀ & Target			
In Vitro	Cell Viability Assay		
	Cell Line:	wild-type E. coli W3110 and E. coli W3110RL	
	Preparation method: The solubility of this compound in DMSO is >21.9mg/mL. General		
		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:	1 μg/mL	

	Applications:	In the presence of 1 µg/mL CHIR-090, wild-type E. coli W3110 stopped growing	
		after about 2 h. The E. coli W3110RL, in which R. leguminosarum lpxC	
		replaces the chromosomal copy of E. coli lpxC, was resistant to CHIR-090. The	
		MIC of CHIR-090 against W3110RL in liquid medium was 100 μg/mL,	
		compared to 0.25 μg/ mL for W3110.	
In Vivo	Animal experiment		
	Applications:	OE MARIE DE LA CONTRACTION DEL CONTRACTION DE LA	

Product Citations

See more customer validations on www.apexbt.com.

References

[1].Barb, A.W., et al., Inhibition of lipid A biosynthesis as the primary mechanism of CHIR-090 antibiotic activity in Escherichia coli. Biochemistry, 2007. 46(12): p. 3793-802.

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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