

Product Name: MRT67307 HCI Revision Date: 01/10/2021

Product Data Sheet

MRT67307 HCI

Cat. No.: A3635

CAS No.: 2095432-39-4 Formula: C26H37CIN6O2

M.Wt: 501.07

Synonyms: MRT 67307;MRT-67307

Target: Immunology/Inflammation

Pathway: IkB/IKK

In Vitro

Storage: Store at -20° C

Solvent & Solubility

 \geqslant 23.25 mg/mL in DMSO; \geqslant 30.67 mg/mL in EtOH; \geqslant 52.5 mg/mL in H2O with gentle warming

Mass Solvent 1mg 5mg 10mg Preparing Concentration Stock Solutions 1 mM 2.1524 mL 10.7619 mL 21.5239 mL 2.1524 mL 4.3048 mL 5 mM 0.4305 mL 10 mM 0.2152 mL 1.0762 mL 2.1524 mL

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

Biological Activity

OUZ/TDIZ A/UZIZ- :-- L:L:

Shortsummary	SIK/TBK-1/IKKe inhibitor	
IC ₅₀ & Target		
	Cell Viability Assay	and the state of t
	Cell Line: 1000 0000	Mouse bone-marrow-derived macrophages
	Preparation method:	The solubility of this compound in DMSO is >23.3 mg/mL. General tips for
In Vitro		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:	0-10000 nM

	Applications:	Treatment of macrophages with MRT67307 led to an increase in the poly(I:C)-
		and LPS-stimulated phosphorylation of p105 and RelA and enhanced NF-кВ
		transcriptional activity. In addition, MRT67307 prevented the production of
		IFNβ and the phosphorylation of IRF3 without suppressing the activation of
	Grown Carrows	NF-kB, which showed that MRT67307 blocked the induction of Pellino 1
	SELENCE TO COMMENT	through inhibiting ΤΒΚ1/ΙΚΚε kinase activity.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Clark K, et al. Novel cross-talk within the IKK family controls innate immunity. Biochem J. 2011 Feb 15;434(1):93-104.

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.

APExBIO Technology

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