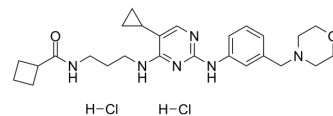


## MRT67307 dihydrochloride

Cat. No.:	HY-13018B
CAS No.:	1781882-89-0
Molecular Formula:	C <sub>26</sub> H <sub>38</sub> Cl <sub>2</sub> N <sub>6</sub> O <sub>2</sub>
Molecular Weight:	537.52
Target:	IKK; ULK; Autophagy
Pathway:	NF-κB; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	MRT67307 dihydrochloride is a dual inhibitor of the IKKε and TBK-1 with IC <sub>50</sub> s of 160 and 19 nM, respectively <sup>[1]</sup> . MRT67307 dihydrochloride also inhibits ULK1 and ULK2 with IC <sub>50</sub> s of 45 and 38 nM, respectively. MRT67307 dihydrochloride also blocks autophagy in cells <sup>[2]</sup> .
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### CUSTOMER VALIDATION

- Nat Med. 2018 Aug;24(8):1143-1150.
- Nature. 2023 Mar;615(7950):158-167.
- Cell Res. 2019 Mar;29(3):193-205.
- Nat Commun. 2015 Jan 21;6:6074.
- Mol Cell. 2020 Dec 3;80(5):810-827.e7.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.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.
- [2]. Petherick KJ, et al. Pharmacological inhibition of ULK1 kinase blocks mammalian target of rapamycin (mTOR)-dependent autophagy. *J Biol Chem*. 2015 May 1;290(18):11376-83.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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