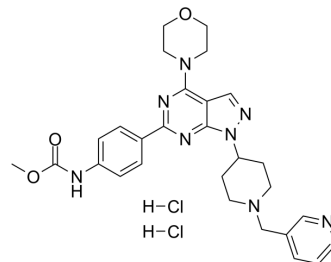


WYE-687 dihydrochloride

Cat. No.:	HY-15271A
CAS No.:	1702364-87-1
Molecular Formula:	C ₂₈ H ₃₄ Cl ₂ N ₈ O ₃
Molecular Weight:	601.53
Target:	mTOR; PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	WYE-687 dihydrochloride is an ATP-competitive mTOR inhibitor with an IC ₅₀ of 7 nM ^[1] . WYE-687 dihydrochloride concurrently inhibits activation of mTORC1 and mTORC2 ^[2] . WYE-687 also inhibits PI3Kα and PI3Kγ with IC ₅₀ s of 81 nM and 3.11 μM, respectively ^[1] .			
IC₅₀ & Target	mTOR 7 nM (IC ₅₀)	mTORC1	mTORC2	PI3K alpha 81 nM (IC ₅₀)
	PI3K gamma 3.11 μM (IC ₅₀)	CK1 gamma1 17.8 μM (IC ₅₀)	p38 alpha 28.9 μM (IC ₅₀)	

CUSTOMER VALIDATION

- Sci Rep. 2022 Apr 12;12(1):6090.
- Molecules. 2020 Apr 23;25(8):1980.
- Biosci Rep. 2019 Dec 20;39(12):BSR20191041.

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REFERENCES

[1]. Yu K, et al. Biochemical, cellular, and in vivo activity of novel ATP-competitive and selective inhibitors of the mammalian target of rapamycin. *Cancer Res.* 2009 Aug 1;69(15):6232-40.

[2]. Cheng F, et al. Preclinical evaluation of WYE-687, a mTOR kinase inhibitor, as a potential anti-acute myeloid leukemia agent. *Biochem Biophys Res Commun.* 2016 Feb 5;470(2):324-330.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA