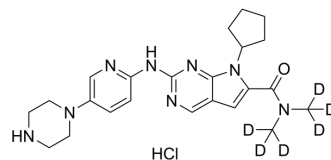


## Ribociclib-d<sub>6</sub> hydrochloride

Cat. No.:	HY-15777AS
Molecular Formula:	C <sub>23</sub> H <sub>25</sub> D <sub>6</sub> ClN <sub>8</sub> O
Molecular Weight:	477.04
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (209.63 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0963 mL	10.4813 mL	20.9626 mL
	5 mM	0.4193 mL	2.0963 mL	4.1925 mL
	10 mM	0.2096 mL	1.0481 mL	2.0963 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Ribociclib-d<sub>6</sub> (hydrochloride) is a deuterium labeled Ribociclib. Ribociclib is a highly specific CDK4/6 inhibitor with IC50 values of 10 nM and 39 nM, respectively, and is over 1,000-fold less potent against the cyclin B/CDK1 complex[1].

### REFERENCES

[1]. VanArsdale T, et al. Molecular Pathways: Targeting the Cyclin D-CDK4/6 Axis for Cancer Treatment. Clin Cancer Res. 2015 Jul 1;21(13):2905-10.

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

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