## **Atuveciclib S-Enantiomer**

Cat. No.:	HY-12871C		
CAS No.:	2250279-81	-1	
Molecular Formula:	C <sub>18</sub> H <sub>18</sub> FN <sub>5</sub> O	۶	
Molecular Weight:	387.43		
Target:	CDK		
Pathway:	Cell Cycle/I	ONA Dam	age
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

## **SOLVENT & SOLUBILITY**

In Vitro

DMSO:≥	113 m	g/I	mL	(291.67	mM)

\* "≥" means soluble, but saturation unknown.

Co Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.5811 mL	12.9056 mL	25.8111 mL
	5 mM	0.5162 mL	2.5811 mL	5.1622 mL
	10 mM	0.2581 mL	1.2906 mL	2.5811 mL

**BIOLOGICAL ACTIVITY** Description Atuveciclib S-Enantiomer (BAY-1143572 S-Enantiomer) is a potent and selective CDK9 inhibitor, which inhibits CDK9/CycT1 with an IC<sub>50</sub> of 16 nM. IC50: 16 nM (CDK9/CycT1)<sup>[1]</sup> IC<sub>50</sub> & Target In Vitro In comparison with Atuveciclib (BAY-1143572), Atuveciclib (BAY-1143572) S-Enantiomer reveals very similar in vitro properties, well within the limits of measurement accuracy; however, with multiple batches of Atuveciclib (BAY-1143572) S-Enantiomer there is a trend toward a slightly lower activity against CDK9 in the biochemical assay (IC<sub>50</sub> CDK9/CycT1: 16 nM) and antiproliferative activity against HeLa cells (IC<sub>50</sub>: 1100 nM) <sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only. In Vivo Atuveciclib (BAY-1143572) S-Enantiomer exhibits blood/plasma ratios of about 1. Relative to Atuveciclib (BAY-1143572), Atuveciclib (BAY-1143572) S-Enantiomer reveals very similar rat PK properties in vivo (CL<sub>b</sub>: 1.2 L/kg per hour, V<sub>ss</sub>: 1.2 L/kg, t 1/2: 0.6 h, F: 53 %)<sup>[1]</sup>.



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## REFERENCES

[1]. Lücking U, et al. Identification of Atuveciclib (BAY 1143572), the First Highly Selective, Clinical PTEFb/CDK9 Inhibitor for the Treatment of Cancer. ChemMedChem. 2017 Nov 8;12(21):1776-1793.

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

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