Proteins

Atuveciclib S-Enantiomer

Cat. No.: HY-12871C CAS No.: 2250279-81-1 Molecular Formula: $C_{18}H_{18}FN_{5}O_{2}S$ 387.43 Molecular Weight:

Target: Pathway: Cell Cycle/DNA Damage

-20°C Storage: Powder 3 years

CDK

2 years

In solvent -80°C 2 years

> -20°C 1 year

SOLVENT & SOLUBILITY

In Vitro DMSO: ≥ 113 mg/mL (291.67 mM)

* "≥" means soluble, but saturation unknown.

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

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

BIOLOGICAL ACTIVITY

Description Atuveciclib S-Enantiomer (BAY-1143572 S-Enantiomer) is a potent and selective CDK9 inhibitor, which inhibits CDK9/CycT1 with an IC₅₀ of 16 nM.

IC₅₀ & Target IC50: 16 nM (CDK9/CycT1)[1]

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-

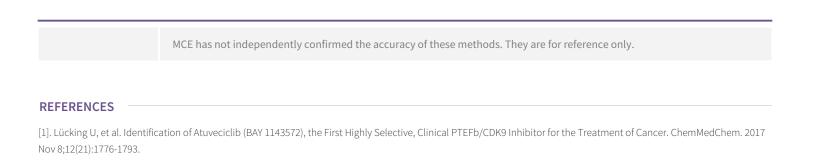
Enantiomer there is a trend toward a slightly lower activity against CDK9 in the biochemical assay (IC $_{50}$ CDK9/CycT1: 16 nM) and antiproliferative activity against HeLa cells (IC₅₀: 1100 nM) ^[1].

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 $_b$: 1.2 L/kg per hour, V_{ss} : 1.2 L/kg, t

_{1/2}: 0.6 h, F: 53 %)^[1].



 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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