Axitinib-d_3

Cat. No.: HY-10065S1

CAS No.: 1126623-89-9

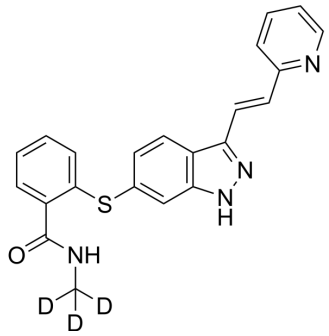
Molecular Formula: $C_{22}H_{15}D_3N_4OS$

Molecular Weight: 389.49

Target: VEGFR

Pathway: Protein Tyrosine Kinase/RTK

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5.56 mg/mL (14.28 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5675 mL	12.8373 mL	25.6746 mL
	5 mM	0.5135 mL	2.5675 mL	5.1349 mL
	10 mM	0.2567 mL	1.2837 mL	2.5675 mL

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

BIOLOGICAL ACTIVITY

Description

Axitinib-d_3 (AG-013736-d3) is deuterium labeled Axitinib. Axitinib is a multi-targeted tyrosine kinase inhibitor with IC50s of 0.1, 0.2, 0.1-0.3, 1.6 nM for VEGFR1, VEGFR2, VEGFR3 and PDGFRβ, respectively[1].

REFERENCES

[1]. Fenton BM, et al. The addition of AG-013736 to rractionated radiation improves tumor response without functionally normalizing the tumor vasculature. Cancer Res. 2007 Oct 15;67(20):9921-8

[2]. Hu-Lowe DD, et al. Nonclinical antiangiogenesis and antitumor activities of axitinib (AG-013736), an oral, potent, and selective inhibitor of vascular endothelial growth factor receptor tyrosine kinases 1, 2, 3. Clin Cancer Res. 2008 Nov 15;14(22):7272-83

[3]. Allen E, et al. Metabolic Symbiosis Enables Adaptive Resistance to Anti-angiogenic Therapy that Is Dependent on mTOR Signaling. Cell Rep. 2016 May 10;15(6):1144-60.

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

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