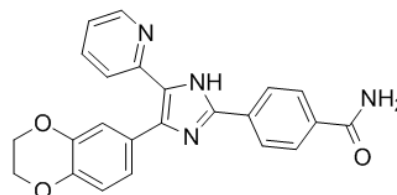


Product Name : D4476
Cat. No. : PC-42523
CAS No. : 301836-43-1
Molecular Formula : C₂₃H₁₈N₄O₃
Molecular Weight : 398.414
Target : Casein Kinase
Solubility : 10 mM in DMSO



Biological Activity

D4476 (Casein Kinase I Inhibitor, D 4476, D-4476) is a potent, selective ATP-competitive inhibitor of **CK1** with IC₅₀ of 0.3 uM in vitro.

D4476 slightly weaker for ALK5 inhibition (IC₅₀=0.5 uM); weak activity for p38α MAPK and no activity for PKB, SGK.

D4476 specifically inhibits the phosphorylation of endogenous FOXO1a on Ser322 and Ser325.

D4476 more potent and specific than IC261 or CKI-7.

References

Rena G, et al. *EMBO Rep.* 2004 Jan;5(1):60-5.

Bryja V, et al. *Cell Signal.* 2007 Mar;19(3):610-6.

Huart AS, et al. *J Biol Chem.* 2009 Nov 20;284(47):32384-94.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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