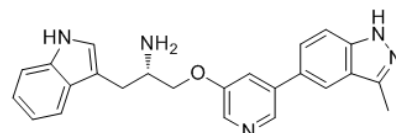


Product Name : A-443654
Cat. No. : PC-42579
CAS No. : 552325-16-3
Molecular Formula : C₂₄H₂₃N₅O
Molecular Weight : 397.4723
Target : Akt
Solubility : 10 mM in DMSO



Biological Activity

A-443654 is a potent and selective **Akt** inhibitor with K_i of 0.16 nM for Akt1.

A-443654 has equal potency against Akt1, Akt2, or Akt3 within cells, displays 40-fold selectivity over PKA, and CMGC family kinases.

A-443654 inhibits Akt-dependent signal transduction, inhibits proliferation of MiaPaCa-2 cells with EC₅₀ of 0.1 μM.

A-443654 inhibits tumor growth in vivo, and is more potent and more selective than A-674563.

References

Luo Y, et al. *Mol Cancer Ther.* 2005 Jun;4(6):977-86.

Han EK, et al. *Oncogene.* 2007 Aug 16;26(38):5655-61.

Shi Y, et al. *Neoplasia.* 2005 Nov;7(11):992-1000.

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

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