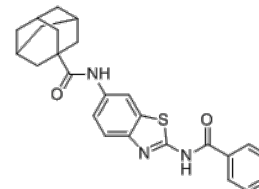


Product Name : NVP-231
Cat. No. : PC-20871
CAS No. : 362003-83-6
Molecular Formula : C₂₅H₂₅N₃O₂S
Molecular Weight : 431.55
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 362003-83-6

Biological Activity

NVP-231 (NVP231) is a potent, specific, and reversible ceramide kinase (CerK) inhibitor with IC₅₀ of 12 nM. NVP-231 does not compete with ATP but rather with ceramide, displaying an inhibition constant (K_i) of 7.4 nM. NVP-231 inhibits C1P formation with IC₅₀ of <10 nM in human CerK-overexpressing COS-cells (COS-CerK), achieved complete inhibition at 100 nM. NVP-231 also is a potent inhibitor of mouse CerK. NVP-231 does not inhibit sphingosine kinases and other lipid kinases, including phosphatidylinositol-3 kinase, phosphatidylinositol-4 kinase β, and Vps34. When combined with another ceramide metabolizing inhibitor, such as tamoxifen, NVP-231 synergistically increased ceramide levels and reduced cell growth.

References

Graf C, et al. Mol Pharmacol. 2008 Oct;74(4):925-32.

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

E-mail: tech@probechem.com