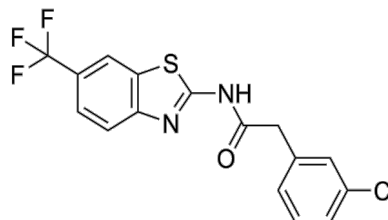


Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name : Casein kinase 1δ-IN-6
Cat.No. : URK-V2505
CAS No. : 1579991-01-7
Molecular Weight : 370.78
Molecular Formula : C₁₆H₁₀ClF₃N₂OS
Target :
Solubility :



Biological Activity

Casein kinase 1δ-IN-6 is a small molecule inhibitor that targets casein kinase 1δ.

Casein kinase 1δ (CK1δ) is a member of the casein kinase 1 family of serine-threonine kinases. It plays a critical role in regulating cell division, DNA damage repair, and transcriptional regulation. CK1δ has been implicated in the development of various types of cancer, including breast, lung, and ovarian cancer.

Casein kinase 1δ-IN-6 is a selective inhibitor of CK1δ. It works by binding to the ATP-binding site of CK1δ and preventing its phosphorylation activity. This results in the inhibition of the downstream signaling pathways that promote cancer cell growth and survival.

References

1. Yang, M. et al. (2017). Design and synthesis of a novel series of casein kinase 1δ inhibitors. Journal of Medicinal Chemistry, 60(4), 1348-1369.
2. Cohen, P. and Frame, S. (2001). The renaissance of GSK3. Nature Reviews Molecular Cell Biology, 2(10), 769-776.

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

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