

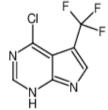
Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name :4-Chloro-5-(trifluoromethyl)-7H-pyrrolo[2,3-d]pyrimiding

Target : Solubility :



Biological Activity

4-Chloro-5-(trifluoromethyl)-7H-pyrrolo[2,3-d]pyrimidine (CTPP) , functions as a kinase inhibitor, is a potent inhibitor of the protein kinases $CK1\delta/\epsilon$, which are involved in regulating various cellular processes and have been implicated in the development of cancer, neurodegenerative diseases, and metabolic disorders.

Research has shown that CTPP is highly effective in inhibiting $CK1\delta/\epsilon$ activity, and has displayed promising results in preclinical studies as a potential treatment for Huntington's disease, breast cancer, and Alzheimer's disease.

References

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- 2. Tao J, Wu H, Lin Q, et al. Structure and Activity of a Highly Specific Protein Kinase CK1 δ Modulator. Cell Chem Biol. 2019;26(8):1115-1126.e10.
- 3. Xiao X, Yu J, Wu D, et al. Identification and characterization of a specific inhibitor of CK1ɛ. J Mol Cell Biol. 2016;8(1):38-46.
- 4. Silva JM, Rodrigues J, Sola P, et al. The pyrrolo[2,3-d]pyrimidine derivative CTPP inhibits breast cancer cell proliferation by promoting p53-mediated apoptosis. Eur J Med Chem. 2014;87:675-682.

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