

Data Sheet

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Molecular Weight : 564.5619

Target : Calcium Channel

Solubility : DMSO

Huang L, et al. *J Pharmacol Exp Ther*. 2004 Apr;309(1):193-9.
 Taylor JT, et al. *Cancer Lett.* 2008 Aug 18;267(1):116-24.
 Kim KH, et al. *J Mol Med (Berl)*. 2015 May;93(5):499-509.
 Fan Huang, et al. *J Clin Invest*. 2023 Aug 24;e166644.

F H C H-Cl

Biological Activity

NNC 55-0396 is a potent and selective **T-type calcium channel** antagonist that blocks recombinant alpha(1)G T-type channels in human embryonic kidney 293 cellswith IC50 of 7 uM.

NNC 55-0396 has no detectable effect on high-voltage-activated channels in INS-1 cells.

NNC 55-0396 inhibits MCF-7 (ERalpha+) cellular proliferation, inhibits tumor-induced angiogenesis in vitro and in vivo by suppressing HIF-1 α stability.

NNC 55-0396 significantly suppresses glioblastoma tumor growth in a xenograft model.

NNC 55-0396 is a small molecule inhibitor of the **PEX3-PEX19 interaction**, effectively disrupts PEX3-PEX19 interaction at 4 μ M.

NNC 55-0396 shows anti-tumoral effect, which is dependent on peroxisomal functions, but not on T-type calcium channels (TTCCs).

NNC 55-0396 shows anti-tumor response with MAPK-targeted therapy in melanoma.

References

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

E-mail: tech@probechem.com