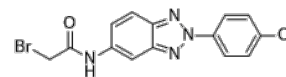


Product Name : N-Myc inhibitor N78
Cat. No. : PC-25463
CAS No. : 885986-52-7
Molecular Formula : C₁₅H₁₃BrN₄O₂
Molecular Weight : 361.20
Target : c-Myc
Solubility : 10 mM in DMSO



CAS: 885986-52-7

Biological Activity

N-Myc inhibitor N78 is a selective small molecule inhibitor of **N-Myc** with MST binding K_d of 1.47 μM, 6-fold selective over c-Myc, inhibits viability of MYCN-dependent tumor cells.

N78 markedly inhibits MYCN-Gal4BD luciferase activity at 1 μM, with no effect on CREB-Gal4BD luciferase activity, also not inhibit c-MYC-Gal4BD luciferase activity.

N78 selectively inhibits cells growth of N-Myc expression of N-Myc-dependent neuroblastoma cells.

N78 selectively inhibits N-Myc expression, with greater selectivity and potency than MYCi975, does not effectively suppress c-Myc expression in TNBC cells.

N78 decreases N-Myc protein stability by regulating phosphorylation of N-Myc at threonine 58 (Thr58), leading to subsequent degradation via the proteasome pathway.

N78 (10 mg/kg/d and 20 mg/kg/d) significantly suppressed tumor growth with Tumor growth inhibition (TGI) values of 79.4% and 61.4%, respectively, in neuroblastoma SK-N-BE (2) subcutaneous xenograft model, showing decreased levels of Ki67 and N-Myc in tumor tissues.

References

Miao Y, et al. *Int J Biol Sci*. 2025 Jul 28;21(11):4895-4907.

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

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