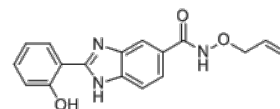


Product Name : X5050
Cat. No. : PC-72525
CAS No. : 2404756-81-4
Molecular Formula : C₁₇H₁₅N₃O₃
Molecular Weight : 309.325
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

X5050 (X-5050) is a small molecule that inhibits **REST** silencing in a RE1-dependent manner, targeted REST degradation. X5050 reduce REST protein levels in cells at a concentration of the 50-100 μ M, leading to a 50% REST reduction. X5050 upregulated neuronal genes targeted by REST in wild-type neural cells, as well as in human induced pluripotent stem cells derived from a Huntington disease (HD) patient. X5050 increased the expressions of BDNF and several other REST-regulated genes in the prefrontal cortex of mice with quinolinate-induced striatal lesions.

References

- Charbord J, et al. *Stem Cells*. 2013 Sep;31(9):1816-28.
- Brenda Medellin, et al. *J Med Chem*. 2022 Jan 13;65(1):507-519.

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

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