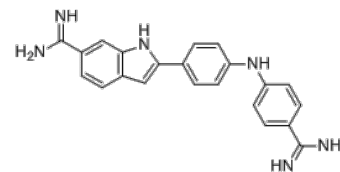


Product Name : Synucleozid
Cat. No. : PC-73134
CAS No. : 502139-01-7
Molecular Formula : C₂₂H₂₀N₆
Molecular Weight : 368.444
Target : Amyloids
Solubility : 10 mM in DMSO



Biological Activity

Synucleozid (NSC 377363) is a small molecule that targets the IRE structure and inhibits SNCA gene translation in cells, directly targets the **α-synuclein** mRNA 5'UTR at the designed site.

Synucleozid decreases 2-AP emission with an EC₅₀ of 2.7 uM.

Synucleozid binds and stabilizes the SNCA IRE in cells at a specific structural element.

Synucleozid selectively reduces α-synuclein protein levels by decreasing the amount of SNCA mRNA loaded into polysomes, mechanistically providing a cytoprotective effect in cells.

References

Zhang P, et al. *Proc Natl Acad Sci U S A*. 2020 Jan 21;117(3):1457-1467.

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

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