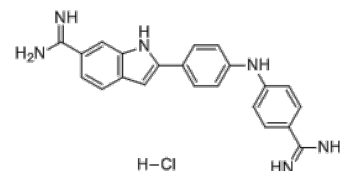


**Product Name** : Synucleozid hydrochloride  
**Cat. No.** : PC-38593  
**CAS No.** : 2741856-68-6  
**Molecular Formula** : C<sub>22</sub>H<sub>21</sub>ClN<sub>6</sub>  
**Molecular Weight** : 404.902  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

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

Synucleozid decreases 2-AP emission with an EC50 of 2.7  $\mu$ M.

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

Synucleozid selectively reduces  **$\alpha$ -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!**

E-mail: tech@probechem.com