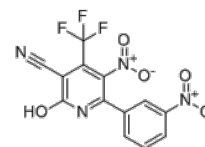


**Product Name** : SynuClean-D  
**Cat. No.** : PC-35683  
**CAS No.** : 685121-45-3  
**Molecular Formula** : C<sub>13</sub>H<sub>5</sub>F<sub>3</sub>N<sub>4</sub>O<sub>5</sub>  
**Molecular Weight** : 354.201  
**Target** : Amyloids  
**Solubility** : 10 mM in DMSO



## Biological Activity

SynuClean-D (SC-D) is a novel, small molecule inhibitor of **α-synuclein (α-Syn)** aggregation, incubation of 70 μM α-Syn with 100 μM SC-D impacted α-Syn aggregation in vitro, as monitored by Th-T fluorescence.

SynuClean-D significantly reduces the in vitro aggregation of wild-type α-synuclein and the familiar A30P and H50Q variants in a substoichiometric molar ratio, prevents fibril propagation in protein-misfolding cyclic amplification assays and decreases the number of α-synuclein inclusions in human neuroglioma cells.

SynuClean-D binds to cavities in mature α-synuclein fibrils and displays a strong fibril disaggregation activity.

SynuClean-D significantly reduces the toxicity exerted by α-synuclein, also rescues dopaminergic neurons from α-synuclein-induced degeneration in Parkinson's disease models.

## References

Pujols J, et al. *Proc Natl Acad Sci U S A*. 2018 Sep 24. pii: 201804198.

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

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