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## DATASHEET

### Tat-βsyn-degron

## Product overview

Name	Tat-βsyn-degron
Cat No	HB7407
Biological action	Inhibitor
Purity	>95%
Description	Novel α-synuclein knockdown peptide

## Biological Data

Biological description	Novel α-synuclein knockdown peptide which reduces α-synuclein levels via proteasomal degradation. BBB and plasma membrane permeable. Decreases α-synuclein aggregates and microglial activation in a pre-formed fibril model of spreading synucleinopathy in transgenic mice overexpressing human A53T α-synuclein. Reduces α-synuclein levels and decreases neuronal damage and motor impairment in a mouse toxicity model of Parkinson's disease.
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## Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in water
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

## Chemical Data

Molecular Weight	3146.71
Molecular Formula	C <sub>132</sub> H <sub>237</sub> N <sub>59</sub> O <sub>31</sub>

## References

### Development of an α-synuclein knockdown peptide and evaluation of its efficacy in Parkinson's disease models.

Jin JW et al (2021) Communications biology 4  
PubMedID [33608634](#)