

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



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## DATASHEET

Tat- $\beta$ syn-degron

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### Product overview

<b>Name</b>	Tat- $\beta$ syn-degron
<b>Cat No</b>	HB7407
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>95%
<b>Description</b>	Novel $\alpha$ -synuclein knockdown peptide

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### Biological Data

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

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

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### Chemical Data

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

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### References

**Development of an  $\alpha$ -synuclein knockdown peptide and evaluation of its efficacy in Parkinson's disease models.**

Jin JW et al (2021) Communications biology 4

**PubMedID** [33608634](#)

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