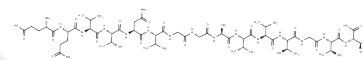


$\alpha$ -Synuclein (61-75)

## Chemical Properties

CAS No. :	440645-08-9
Formula:	C60H103N17O23
Molecular Weight:	1430.58
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	$\alpha$ -Synuclein (61-75) is a peptide fragment derived from the larger protein $\alpha$ -Synuclein, which is predominantly found in presynaptic nerve terminals and considered a biomarker candidate for Parkinson's disease (PD).
Targets(IC50)	Others
In vitro	Lewy bodies containing $\alpha$ -Synuclein are key neuropathological indicators of Parkinson's Disease (PD). Mutations in $\alpha$ -Synuclein (A30P, E46K, H50Q, G51D, A53E, A53T), along with gene duplications and triplications, directly cause PD. Polymorphisms in $\alpha$ -Synuclein gene regulatory elements also increase susceptibility to PD and are linked to early onset. The non-A $\beta$ -amyloid component (NAC) of $\alpha$ -Synuclein is hydrophobic and prone to aggregation, unlike its counterparts in mice and human $\beta$ -Synuclein, which do not aggregate. $\beta$ -Synuclein shares greater homology with $\alpha$ -Synuclein in the N-terminal sequences (74%) compared to $\gamma$ -Synuclein (67%)[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.699 mL	3.4951 mL	6.9902 mL
5 mM	0.1398 mL	0.699 mL	1.398 mL
10 mM	0.0699 mL	0.3495 mL	0.699 mL
50 mM	0.014 mL	0.0699 mL	0.1398 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jacqueline Burré, et al. Cell Biology and Pathophysiology of  $\alpha$ -Synuclein. Cold Spring Harb Perspect Med. 2018 Mar 1;8(3):a024091.

Nelson Ferreira, et al. Trans-synaptic spreading of alpha-synuclein pathology through sensory afferents leads to sensory nerve degeneration and neuropathic pain. Acta Neuropathol Commun. 2021 Feb 25;9(1):31.

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