Proteins

Inhibitors



Product Data Sheet

EQVTNVGGAVVTGVT (TFA salt)

α-Synuclein (61-75) (TFA)

Cat. No.: HY-P3140A

Molecular Weight:

Molecular Formula:

Sequence Shortening: EQVTNVGGAVVTGVT

Target: α-synuclein

Pathway: **Neuronal Signaling**

Storage: Sealed storage, away from moisture

 $C_{62}H_{104}F_3N_{17}O_{25}$

Powder -80°C 2 years

-20°C 1 year

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (64.74 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	0.6474 mL	3.2371 mL	6.4743 mL
	5 mM	0.1295 mL	0.6474 mL	1.2949 mL
	10 mM	0.0647 mL	0.3237 mL	0.6474 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (1.62 mM); Suspended solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

 α -Synuclein (61-75) TFA is the 61-75 fragment of α -Synuclein. α -Synuclein is an abundant neuronal protein that is highly enriched in presynaptic nerve terminals. α -Synuclein is a potential biomarker for Parkinson's disease (PD)^{[1][2]}.

In Vitro

Lewy bodies containing α -synuclein are a neuropathological hallmark of PD, and missense mutations in α -Synuclein (A30P, E46K, H50Q, G51D, A53E, A53T), as well as α-Synuclein gene duplications and triplications, appear to cause PD. Moreover, polymorphisms in regulatory elements of the α-Synuclein gene predispose individuals to PD and are linked to an early onset of the disease. The non-A β -amyloid component (NAC) region of α -synuclein is relatively hydrophobic and aggregation-prone in human α -Synuclein but not in mouse α -Synuclein nor in the corresponding homologous region of human β -synuclein. Yet, β -synuclein is more homologous to α-Synuclein in the N-terminal sequences (74%) than γ -synuclein (67%)^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.



Caution: Product has not been fully validated for medical applications. For research use only.

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