

MATERIAL DATA SHEET

Recombinant Human His6 Synuclein- α

Cat. # SP-480

α -Synuclein is member of a family of small soluble proteins that include also β -, and γ -Synuclein. It is predominantly expressed in neurons of the central nervous system in the presynaptic region of nerve terminals, where cycles between free partially unfolded and helical membrane-bound forms. α -Synuclein can self-aggregate *in vivo* and *in vitro*, forming various oligomeric species and fibrillar and amorphous aggregates. The fibrils and amyloid forms of α -Synuclein are major components of Lewy bodies and Lewy neurites and have been linked to the pathogenesis of Parkinson's disease, Parkinson's disease dementia, and dementia with Lewy bodies. α -Synuclein aggregates can be also found associated with amyloid plaques in Alzheimer's disease.

Product Information

Quantity:	500 μ g
MW:	15 kDa
Source:	<i>E. coli</i> -derived Contains a C-terminal 6-His tag Accession # P37840
Stock:	Supplied as a solution in HEPES and NaCl.
Purity:	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage

Use:	Recombinant Human His6- α -Synuclein is ideal for use as a control substrate for <i>in vitro</i> Ubiquitin conjugation using select Ubiquitin E3 ligases such as CHIP/Stub1. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human His6- α -Synuclein concentration of 0.5-2.5 μ M.
Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• 12 months from date of receipt, -70 °C as supplied.• 6 months, -70 °C under sterile conditions after opening.

Literature

References:

1. Breydo L, Wu J.W., Uversky V.N. (2012) Biochim Biophys Acta. **1822**: 261
2. Chen R.H., et al. (2013) J Biol Chem. **288**: 7438
3. Li X., et al. (2008) Acta Biochim Biophys Sin (Shanghai) **40**: 406
4. Surguchov A. (2008) Int Rev Cell Mol Biol **270**: 225
5. Xia Q., et al. (2008) Front Biosci. **13**: 3850

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