

## Alpha-synuclein Protein – Phospho S129 (Proteos, Inc.)

### Protein Type:

Alpha-synuclein phosphopeptide specially ligated to include a phosphate group at amino acid position S-129

### Species/sequence of final phosphopeptide:

Full length human alpha-synuclein with a  $\text{PO}_3\text{H}^2$  group at amino acid position S-129

### Source/expression:

Initial 1-84 aa precursor peptide containing Mxe GyrA intein was expressed in *E. coli* followed by proprietary purification, thiolation, and reverse phase purification of the active thioester (Proteos, Inc.) The active thioester was then transferred to CPC Scientific for ligation of the  $\text{PO}_3\text{H}^2$  group at amino acid position Serine 129 with the remaining amino acids to yield a full length phosphopeptide.

### Purification/Analysis:

The initial precursor protein (generated by Proteos) was purified by ion exchange chromatography and size exclusion chromatography and determined to be >95% pure by SDS-PAGE. CPC Scientific performed ligation of the  $\text{PO}_3\text{H}^2$  group. RP-HPLC analysis of the final ligated peptide indicated peptide purity of 96.5%. See CofA included with order for lot-specific details.

**MW:** 14540.2 Da determined by mass spectral analysis (final peptide is untagged)

### Formulation/Storage:

White lyophilized powder; solubility 1mg/ml in water; storage at  $-20^\circ\text{C}$

### Availability:

Order using PDF order form downloaded from the “proteins” section of the [MJFF Online Tools Catalog](#) by clicking “Get it at Proteos”

**Notes:** *This product is intended solely for research purposes*