

## L803-mts

Cat. No.:	HY-P1173
CAS No.:	1043881-55-5
Molecular Formula:	C <sub>66</sub> H <sub>110</sub> N <sub>15</sub> O <sub>20</sub> P
Molecular Weight:	1464.64
Sequence:	{Myr}-Gly-Lys-Glu-Ala-Pro-Pro-Ala-Pro-Pro-Gln-{Ser(PO3H)}-Pro-NH <sub>2</sub>
Sequence Shortening:	{Myr}-GKEAPPAPPQ-{Ser(PO3H)}-P-NH <sub>2</sub>
Target:	GSK-3; Amyloid-β
Pathway:	PI3K/Akt/mTOR; Stem Cell/Wnt; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	L803-mts (Myristoylated L 803) is a selective and substrate-competitive GSK-3 peptide inhibitor (IC <sub>50</sub> : 40 μM). L803-mts also reduces Aβ deposits and ameliorates cognitive deficits in 5XFAD mice. L803-mts shows antidepressive effect in the forced swimming test <sup>[1][2]</sup> .
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### REFERENCES

[1]. Kaidanovich-Beilin O, et al. Rapid antidepressive-like activity of specific glycogen synthase kinase-3 inhibitor and its effect on beta-catenin in mouse hippocampus. *Biol Psychiatry*. 2004 Apr 15;55(8):781-4.

[2]. Avrahami L, et al. Inhibition of glycogen synthase kinase-3 ameliorates β-amyloid pathology and restores lysosomal acidification and mammalian target of rapamycin activity in the Alzheimer disease mouse model: in vivo and in vitro studies. *J Biol Chem*. 2013 Jan 11;288(2):1295-306.

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

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