

## Sinapultide

Cat. No.:	HY-P2207
CAS No.:	138531-07-4
Molecular Formula:	C <sub>126</sub> H <sub>238</sub> N <sub>26</sub> O <sub>22</sub>
Molecular Weight:	2469.4
Sequence Shortening:	KLLLLKLLLLKLLLLKLLLL
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Sinapultide is a 21-amino-acid peptide that mimics the action of human surfactant protein-B (SP-B). Sinapultide can be used for synthetic phospholipids surfactants improvement <sup>[1]</sup> .
<b>In Vitro</b>	Sinapultide microbubble preparation (2 µg/mL, 5 µg/mL; 24 h) combined with ultrasound (0.5 MHz, 40 s) could promote the function recovery of injured AT II cells effectively via affecting TNF-α and IL-6 levels <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Sinapultide-loaded microbubbles (MBs) (0.1 mg; nasal delivery; collected at 3, 6, 12 and 24 hours after LPS) improves pulmonary edema in lung injury and increases lung W/D weight in LPS-induced ALI mice <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Braide-Moncoeur O, et al. Peptide-based synthetic pulmonary surfactant for the treatment of respiratory distress disorders. *Curr Opin Chem Biol.* 2016 Jun;32:22-8.
- [2]. Liu D, et al. Sinapultide-Loaded Microbubbles Combined with Ultrasound to Attenuate Lipopolysaccharide-Induced Acute Lung Injury in Mice. *Drug Des Devel Ther.* 2020 Dec 22;14:5611-5622.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA