

Sinapultide TFA

Cat. No.:	HY-P2207A
CAS No.:	2828433-25-4
Molecular Formula:	C ₁₂₈ H ₂₃₉ F ₃ N ₂₆ O ₂₄
Molecular Weight:	2583.42
Sequence Shortening:	KLLLLKLLLLKLLLLKLLLLK (TFA)
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Sinapultide TFA is a 21-amino-acid peptide that mimics the action of human surfactant protein-B (SP-B). Sinapultide TFA can be used for synthetic phospholipids surfactants improvement ^[1] .
In Vitro	Sinapultide TFA 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 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Sinapultide TFA-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 ^[2] . 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 TFA-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.

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