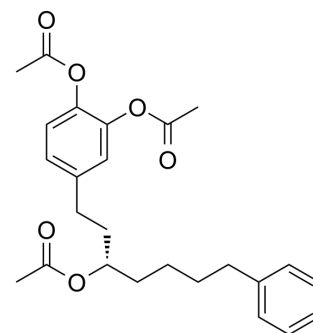


$\alpha 7$ nAChR-JAK2-STAT3 agonist 1

Cat. No.:	HY-146066
CAS No.:	2108714-20-9
Molecular Formula:	C ₂₅ H ₃₀ O ₆
Molecular Weight:	426.5
Target:	nAChR; JAK; STAT; NO Synthase
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	$\alpha 7$ nAChR-JAK2-STAT3 agonist 1 is a potent $\alpha 7$ nAChR-JAK2-STAT3 agonist, with an IC ₅₀ value of 0.32 μ M for nitric oxide (NO). $\alpha 7$ nAChR-JAK2-STAT3 agonist 1 effectively suppresses the expression of iNOS, IL-1 β , and IL-6 in murine RAW264.7 macrophages. $\alpha 7$ nAChR-JAK2-STAT3 agonist 1 can inhibit LPS-induced NO release, NF- κ B activation and cytokine production. $\alpha 7$ nAChR-JAK2-STAT3 can be used for researching sepsis ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.32 μ M (NO) ^[1]

REFERENCES

[1]. Lin Y, et al. Discovery of diarylheptanoids that activate $\alpha 7$ nAChR-JAK2-STAT3 signaling in macrophages with anti-inflammatory activity in vitro and in vivo. *Bioorg Med Chem.* 2022;66:116811.

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

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