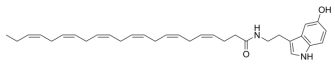
Docosahexaenoyl serotonin

Cat. No.:	HY-131397
CAS No.:	283601-58-1
Molecular Formula:	$C_{32}H_{42}N_2O_2$
Molecular Weight:	486.69
Target:	Interleukin Related
Pathway:	Immunology/Inflammation
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	Docosahexaenoyl serotonin (DHA-5-HT) is an endogenous n-3 fatty acid-serotonin conjugate. Docosahexaenoyl serotonin is an inhibitor of IL-17. Docosahexaenoyl serotonin has anti-inflammatory activity[1][2].
In Vitro	Docosahexaenoyl serotonin (100-500 nM, 24 h) inhibits IL-23-IL-17 signaling cascade in RAW264.7 macrophages stimulated by lipopolysaccharide (HY-D1056) with effective anti-inflammatory properties[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Poland M, et al. Docosahexaenoyl serotonin, an endogenously formed n-3 fatty acid-serotonin conjugate has anti-inflammatory properties by attenuating IL-23-IL-17 signaling in macrophages. Biochim Biophys Acta. 2016 Dec;1861(12 Pt A):2020-2028.

[2]. Wang Y, Balvers MGJ, Hendriks HFJ, Wilpshaar T, van Heek T, Witkamp RF, Meijerink J. Docosahexaenoyl serotonin emerges as most potent inhibitor of IL-17 and CCL-20 released by blood mononuclear cells from a series of N-acyl serotonins identified in human intestinal tissue. Biochim Biophys Acta Mol Cell Biol Lipids. 2017 Sep;1862(9):823-831.

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