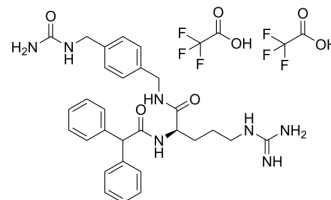


BIBO3304 diTFA

Cat. No.:	HY-107725A
CAS No.:	2310085-85-7
Molecular Formula:	C ₃₃ H ₃₇ F ₆ N ₇ O ₇
Molecular Weight:	757.68
Target:	Neuropeptide Y Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

BIBO3304 (diTFA) is an orally effective and selective neuropeptide Y (NPY) Y1 receptor antagonist. BIBO3304 (diTFA) has a high affinity for both human and rat Y1 receptors, with IC₅₀ values of 0.38 and 0.72 nM, respectively. BIBO3304 (diTFA) promotes bone-tendon healing through the Wnt/ β -catenin signaling pathway^{[1][2][3]}.

REFERENCES

- [1]. Wieland HA, et al. Subtype selectivity of the novel nonpeptide neuropeptide Y Y1 receptor antagonist BIBO 3304 and its effect on feeding in rodents. *Br J Pharmacol.* 1998 Oct;125(3):549-55.
- [2]. Chen Y, et al. Early treadmill running delays rotator cuff healing via Neuropeptide Y mediated inactivation of the Wnt/ β -catenin signaling. *J Orthop Translat.* 2021 Oct 11;30:103-111.
- [3]. Loh K, et al. Inhibition of Y1 receptor signaling improves islet transplant outcome. *Nat Commun.* 2017 Sep 8;8(1):490.

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

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