

Product Data Sheet

OMDM-5

Cat. No.: HY-135881 CAS No.: 616884-66-3 Molecular Formula: $C_{26}H_{44}N_2O_3$ Molecular Weight: 432.64

Target: TRP Channel; Endogenous Metabolite

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

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BIOLOGICAL ACTIVITY

Description	OMDM-5 is a selective inhibitor of anandamide cellular uptake (ACU), with a K_i of 4.8 μ M. OMDM-5 is also a potent vanilloid receptor type 1 (VR1, TRPV1) agonist, with an EC ₅₀ of 75 nM, and shows weakly active as cannabinoid receptor type 1 (CB1) ligand (K_i =4.9 μ M) ^[1] .
IC ₅₀ & Target	Ki: 4.8 μ M (anandamide cellular uptake), 4.9 μ M (CB1), EC50: 75 nM (VR1) $^{[1]}$

REFERENCES

[1]. Ortar G, et al. Novel selective and metabolically stable inhibitors of anandamide cellular uptake. Biochem Pharmacol. 2003 May 1;65(9):1473-81.

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

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