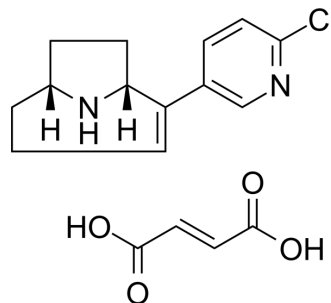


UB-165 fumarate

Cat. No.:	HY-107688A
CAS No.:	2454492-43-2
Molecular Formula:	C ₁₇ H ₁₉ ClN ₂ O ₄
Molecular Weight:	350.8
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	UB-165 fumarate is a nAChR agonist, being a full agonist of the $\alpha 3\beta 2$ isoform and a partial agonist of the $\alpha 4\beta 2^*$ isoform, with a K_i value of 0.27 nM for [³ H]-nicotine binding in rat brain ^[1] .
IC ₅₀ & Target	Ki: 0.27 nM (nicotine in rat brain) ^[1] .
In Vitro	UB-165 fumarate stimulates [³ H]-dopamine release from striatal synaptosomes with an EC ₅₀ value of 88 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Christopher G. V. Sharples, et al. UB-165: A Novel Nicotinic Agonist with Subtype Selectivity Implicates the $\alpha 4\beta 2^*$ Subtype in the Modulation of Dopamine Release from Rat Striatal Synaptosomes. *Journal of Neuroscience* 15 April 2000, 20 (8) 2783-2791.

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

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