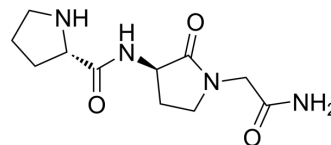


PAOPA

Cat. No.:	HY-103423
CAS No.:	114200-31-6
Molecular Formula:	C ₁₁ H ₁₈ N ₄ O ₃
Molecular Weight:	254.29
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PAOPA, an analog of L-proline-l-leucine-glycine amide (PLG) peptide, is an allosteric modulator of Dopamine D ₂ Receptor. PAOPA can effectively reduce behavioral abnormalities in rodent models of schizophrenia. PAOPA increases the high affinity dopamine D ₂ receptor and promotes its binding to agonists ^[1] .
IC₅₀ & Target	D ₂ Receptor
In Vitro	PAOPA (10 μM; 1.5 h) increases the expression of GRK2 striatum, arrestin-3, phosphorylated ERK1 and ERK2 in D2/eYFP. Cells [1]. PAOPA (10 μM; 48 h) promotes the internalization of D ₂ receptors in D2/eYFP. Cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	PAOPA (1 mg/kg; 100 μl; 1 h, 45 min) significantly increases D ₂ receptor expression (GRK2/arrestin-3 phosphorylation ERK 1/2) in the striatum [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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