

CTAP

Cat. No.:	HY-P1335
CAS No.:	103429-32-9
Molecular Formula:	C ₅₁ H ₆₉ N ₁₃ O ₁₁ S ₂
Molecular Weight:	1104.3
Sequence:	{d-Phe}-Cys-Tyr-{d-Trp}-Arg-Thr-{Pen}-Thr-NH ₂ (Disulfide bridge:Cys2-Pen7)
Sequence Shortening:	{d-Phe}-CY-{d-Trp}-RT-{Pen}-T-NH ₂ (Disulfide bridge:Cys2-Pen7)
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description	CTAP is a potent, highly selective, and brain penetrant μ opioid receptor antagonist (IC_{50} =3.5 nM) and displays over 1200-fold selectivity over δ opioid (IC_{50} =4500 nM) and somatostatin receptors. CTAP can be used for the study of L-DOPA-induced dyskinesia (LID) ^[1] .
IC ₅₀ & Target	IC ₅₀ : 3.5 nM (μ opioid receptor) IC ₅₀ : 4500 nM (δ opioid receptor) ^[1]

REFERENCES

[1]. Mitchell J Bartlett, et al. Highly-selective μ -opioid Receptor Antagonism Does Not Block L-DOPA-induced Dyskinesia in a Rodent Model. BMC Res Notes

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

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