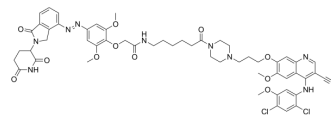


CaMKII α -PHOTAC

Cat. No.:	HY-156104
Molecular Formula:	C ₅₄ H ₅₈ Cl ₂ N ₁₀ O ₁₁
Molecular Weight:	1094
Target:	PROTACs; CaMK
Pathway:	PROTAC; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CaMKII α -PHOTAC is a photochemically targeted chimera (PHOTAC) targeting Ca ²⁺ /calmodulin-dependent protein kinase II α (CaMKII α). Molecules such as PHOTAC can catalyze the ubiquitination and degradation of target proteins through the endogenous proteasome under specific wavelengths of light. CaMKII α -PHOTAC reduces synaptic function under light conditions, and it attenuates the intensity of evoked field excitatory postsynaptic potentials in the mouse hippocampus in response to physiological stimuli. CaMKII α -PHOTAC plays a critical role in maintaining long-term potentiation and memory capacity in subcellular dendritic domains ^[1] .
IC ₅₀ & Target	CaMKII α ^[1]

REFERENCES

[1]. Ko T, et al. Photoactivated Protein Degradation for Optical Control of Synaptic Function. ACS Chem Neurosci. 2023 Sep 15.

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

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