
Product Name	: KS-133	Ac-CPPYLPKYLCDLI-NH ₂ (cyclized C1-C10, K7-D11)
Cat. No.	: PC-20659	
CAS No.	: 2724212-01-3	
Molecular Formula	: C ₇₅ H ₁₁₁ N ₁₅ O ₁₇ S ₂	
Molecular Weight	: 1558.92	
Target	: Vasoactive intestinal peptide receptor (VIPR)	
Solubility	: 10 mM in DMSO	

Biological Activity

KS-133 (KS133) is a potent, selective bicyclic peptide antagonist of vasoactive intestinal peptide receptor 2 (**VIPR2**) with IC₅₀ of 24.8 nM in Ca influx assays.

KS-133 does not antagonize VIP-VIPR1 or PACAP-PAC1 signaling pathways up to 5 μM.

KS-133 antagonized VIP-VIPR2 signaling pathway in a peptide concentration-dependent manner (IC₅₀=500 nM) in cAMP assays, without VIPR2 agonist activity up to 5 μM.

The selective VIPR2 agonist BAY 55-9837 (20 μg/mouse) significantly increased phosphorylated CREB in the prefrontal cortex, KS-133 (20 nmol/mouse) coadministration blocked this effect.

KS-133 exhibited in vivo pharmacological efficacies in a mouse model of psychiatric disorders through early postnatal activation of VIPR2.

KS-133 dose-dependently inhibited VIP-induced cell migration in VIPR2-overexpressing MDA-MB-231 cells.

References

Sakamoto K, et al. *Front Pharmacol* (2021) 12:751587.

Satoshi Asano, et al. *Front Oncol*. 2022 Sep 27;12:852358.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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