
Product Name	: BAY 55-9837	Peptide HSDAVFTDNYTRLRKQVAACKYLQSIKMKRY
Cat. No.	: PC-20661	
CAS No.	: 463930-25-8	CAS: 463930-25-8
Molecular Formula	: C ₁₄₈ H ₂₃₉ ClN ₄₄ O ₄₂	
Molecular Weight	: 3342.20	
Target	: Vasoactive intestinal peptide receptor (VIPR)	
Solubility	: 10 mM in DMSO	

Biological Activity

BAY 55-9837 is a potent, highly selective peptide agonist of vasoactive intestinal peptide receptor 2 (VIPR2, VPAC2 receptor) with K_d of 0.65 nM, >100-fold selectivity over VPAC1.

BAY 55-9837 stimulated glucose-dependent insulin secretion in isolated rat and human pancreatic islets, increased insulin synthesis in purified rat islets, and caused a dose-dependent increase in plasma insulin levels in fasted rats (EC₅₀=3 pM/kg).

Bay 55-9837 reduced the glucose area under the curve following an intraperitoneal glucose tolerance test.

Bay 55-9837 increases neuronal damage and hemorrhagic transformation after stroke in type 2 diabetic rats.

References

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Hadwen J, et al. Orphanet J Rare Dis. 2014 Jan 9;9:4.

Darsalia V, et al. Neuropeptides. 2013 Apr;47(2):133-7.

Pan CQ, et al. J Pharmacol Exp Ther. 2007 Feb;320(2):900-6.

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

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