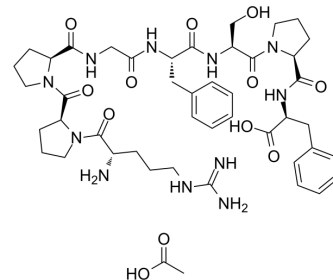


[Des-Arg9]-Bradykinin acetate

Cat. No.:	HY-P0298A
CAS No.:	23827-91-0
Molecular Formula:	C ₄₆ H ₆₅ N ₁₁ O ₁₂
Molecular Weight:	964.07
Sequence:	Arg-Pro-Pro-Gly-Phe-Ser-Pro-Phe
Sequence Shortening:	RPPGFSPF
Target:	Bradykinin Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (103.73 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		1.0373 mL	5.1863 mL	10.3727 mL
	5 mM		0.2075 mL	1.0373 mL	2.0745 mL
	10 mM		0.1037 mL	0.5186 mL	1.0373 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

[Des-Arg9]-Bradykinin acetate is a Bradykinin B₁ receptor agonist that displays selectivity for B₁ over B₂ receptors.

IC₅₀ & Target

Bradykinin B₁ receptor^[1]

In Vitro

[Des-Arg9]-Bradykinin acetate is a Bradykinin(B₁) receptor agonist. The B₂ receptor mediates the action of bradykinin (BK) and lysyl-bradykinin (Lys-BK), the first set of bioactive kinins formed in response to injury from kininogen precursors through the actions of plasma and tissue kallikreins, whereas the B₁ receptor mediates the action of [Des-Arg⁹]-Bradykinin (des-Arg⁹-BK) and Lys-des-Arg Arg⁹-BK, the second set of bioactive kinins formed through the actions of carboxypeptidases on BK and Lys-BK, respectively^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Leeb-Lundberg LM, et al. International union of pharmacology. XLV. Classification of the kinin receptor family: from molecular mechanisms to pathophysiological consequences. Pharmacol Rev. 2005 Mar;57(1):27-77.

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

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