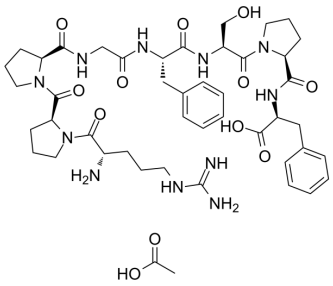
[Des-Arg9]-Bradykinin acetate

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

H_2O : 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.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: ≥ 100 mg/mL (103.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

[Des-Arg9]-Bradykinin acetate is a Bradykinin B_1 receptor agonist that displays selectivity for B_1 over B_2 receptors.

IC_{50} & Target

Bradykinin B_1 receptor[1]

In Vitro

[Des-Arg9]-Bradykinin acetate is a Bradykinin(B_1) receptor agonist. The B_2 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 B_1 receptor mediates the action of [Des-Arg^9]-Bradykinin (des-Arg^9-BK) and Lys-des-Arg Arg^9-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.

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