
Product Data Sheet

Product Name: [Des-Arg⁹]-Bradykinin acetate

Cat. No.: GC33850

Chemical Properties

Cas. No. 23827-91-0

SMILES Arg-Pro-Pro-Gly-Phe-Ser-Pro-Phe

Formula C₄₆H₆₅N₁₁O₁₂

M.Wt 964.07

Solubility Water : 100 mg/mL (103.73 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure [Des-Arg⁹]-Bradykinin acetate

Background

(Des-Arg⁹)-Bradykinin is an active metabolite of the endogenous vasodilator bradykinin and a peptide agonist of the bradykinin B₁ receptor.^{1,2} It binds to bradykinin B₁ and B₂ receptors (K_ds = 1.93 and 8.1 μM, respectively).³ (Des-Arg⁹)-Bradykinin is formed *via* carboxypeptidase-mediated cleavage of the bradykinin C-terminal arginine residue in plasma and tissues.² It induces relaxation of precontracted isolated endothelium-denuded dog renal artery strips (pD₂ = 8.6).⁴ (Des-Arg⁹)-Bradykinin decreases blood pressure in LPS-treated rabbits in a dose-dependent manner.⁵

1. Bastian, S., Loillier, B., Paquet, J.L., et al. Stable expression of human kinin B₁ receptor in 293 cells: Pharmacological and functional characterization *Br. J. Pharmacol.* 122(2)393-399(1997) 2. Leeb-Lundberg, L.M.F., Marceau, F., Müller-Esterl, W., et al. International union of pharmacology. XLV. Classification of the kinin receptor family: From molecular mechanisms to pathophysiological consequences *Pharmacol. Rev.* 57(1)27-77(2005) 3. Hess, J.F., Borkowski, J.A., Macneil, T., et al. Differential pharmacology of cloned human and mouse B₂ bradykinin receptors *Mol. Pharmacol.* 45(1)1-8(1994) 4. Rhaleb, N.E.,

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

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Drapeau, G., Dion, S., et al. Structure-activity studies on bradykinin and related peptides: Agonists *Br. J. Pharmacol.* 99(3)445-448(1990) 5. Drapeau, G., deBlois, D., and Marceau, F. Hypotensive effects of Lys-des-Arg9-bradykinin and metabolically protected agonists of B1 receptors for kinins *J. Pharmacol. Exp. Ther.* 259(3)997-1003(1991)

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