Web: www.taiclone.com
Tel: +886-2-2735-9682
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L-Epinephrine (Bitartrate)

Catalog No: tcsc2557

Available Sizes

Size: 1g

Size: 5g

Specifications

CAS No:
51-42-3

Formula:
$C_{13}H_{19}NO_9$

Pathway:
GPCR/G Protein

Target:
Adrenergic Receptor

Purity / Grade:
>98%

Solubility:
: ≥ 50 mg/mL (150.02 mM); DMSO : 50 mg/mL (150.02 mM; Need ultrasonic); H2O : 100 mg/mL (300.04 mM; adjust pH to 2 with HCl)

Alternative Names:
(-)-Epinephrine (+)-bitartrate salt;L-Adrenaline (+)-bitartrate salt

Observed Molecular Weight:
333.29

Product Description

L-Epinephrine bitartrate is an **α-adrenergic** and **β-adrenergic** receptor agonist. L-Epinephrine is a hormone secreted by the

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medulla of the adrenal glands.

In Vivo: A 25 microliter volume of a 1-% L-epinephrine borate solution applied on the cornea of one eye in 12 monkeys reduces blood flow through the iris and the ciliary body by 59% and 20%, respectively, compared to the untreated control eyes[1]. Epinephrine is a direct-acting sympathomimetic α-adrenergic and β-adrenergic agonist with cyclic adenosine monophosphate-mediated, complex, bidirectional pharmacologic effects on many target organs[2]. In young adult rats, endogenous release of epinephrine facilitates stable memory formation for temporally associated events. Epinephrine enhances memory in young adult rats, in part, by increasing blood glucose levels needed to modulate memory[3]. Epinephrine is the primary drug administered during cardiopulmonary resuscitation (CPR) to reverse cardiac arrest. Epinephrine increases arterial blood pressure and coronary perfusion during CPR via alpha-1-adrenoceptor agonist effects[4].