

Synephrine (hydrochloride)

Catalog No: tcsc3083



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

5985-28-4

Formula:

$C_9H_{14}ClNO_2$

Pathway:

GPCR/G Protein

Target:

Adrenergic Receptor

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 52 mg/mL (255.31 mM)

Alternative Names:

Oxedrine hydrochloride

Observed Molecular Weight:

203.67

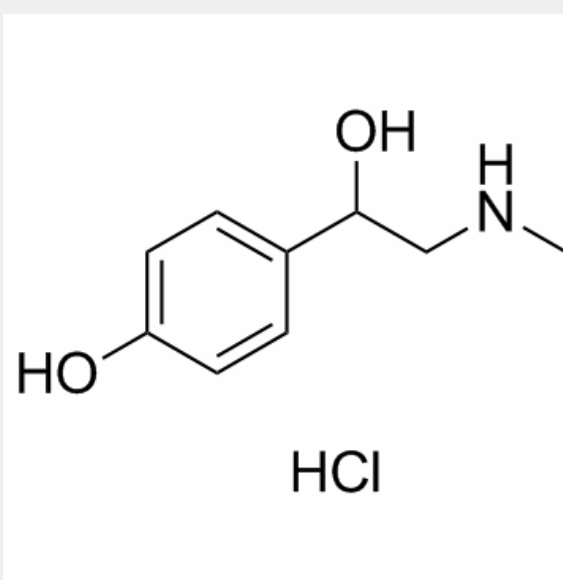
Product Description

Synephrine Hcl(Oxedrine) is an alkaloid; synephrine produces most of its biological effects by acting as an agonist at adrenergic receptors.

IC50 value:

Target: adrenergic receptor agonist

There is some evidence that synephrine also has weak activity at 5-HT receptors, and that it interacts with TAAR1 (trace adrenergic amine receptors). d-synephrine inhibited the uptake of [3H]-norepinephrine with an IC50 = 5.8 μ M; l-synephrine was less potent (IC50 = 13.5 μ M). d-Synephrine also competitively inhibited the binding of nisooxetine[m] to rat brain cortical slices, with a Ki = 4.5 μ M; l-synephrine was less potent (Ki = 8.2 μ M). In experiments on the release of [3H]-norepinephrine from rat brain cortical slices, however, the l-isomer of synephrine was a more potent enhancer of the release (EC50 = 8.2 μ M) than the d-isomer (EC50 = 12.3 μ M). This enhanced release by l-synephrine was blocked by nisooxetine.



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