Web: www.taiclone.com
Tel: +886-2-2735-9682
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Fenoldopam

Catalog No: tcsc2979

Available Sizes

Size: 10mg

Specifications

CAS No:
67227-56-9

Formula:
$C_{16}H_{16}ClNO_3$

Pathway:
GPCR/G Protein;Neuronal Signaling

Target:
Dopamine Receptor;Dopamine Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
SKF 82526

Observed Molecular Weight:
305.76

Product Description

Fenoldopam(SKF 82526) is a drug and synthetic benzazepine derivative which acts as a selective D1 receptor partial agonist.

Target: D1 Receptor

Fenoldopam is a selective dopamine-1 (DA1) agonist with natriuretic/diuretic properties. Fenoldopam stimulated cAMP accumulation

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in LLC-PK1 cells in a dose-dependent manner, an effect which could be blocked by the DA1-selective antagonist Sch 23390. Although fenoldopam was more potent than DA (EC50 55.5 +/- 7.75 nM vs. 1.65 +/- 0.64 microM) in stimulating cAMP accumulation in LLC-PK1 cells, the maximum stimulation obtained by fenoldopam was only 37% of the maximum stimulation obtained by DA(Emax 13.0 +/- 2.95 pmol/mg of protein vs. 35.6 +/- 10.19 pmol/mg of protein) [1]. Fenoldopam is a selective dopamine1 (DA1) receptor agonist. Most of the DA1 receptor agonist activity of fenoldopam resides in the R-enantiomer, which also shows weaker alpha 2-adrenoceptor antagonist activity Fenoldopam produces vasodilation in vascular beds that are rich in vascular DA1 receptors [2].