

AE0047 Hydrochloride

Catalog No: tcsc7244



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 20mg



Specifications

CAS No:

116308-56-6

Formula:

$C_{41}H_{43}ClN_4O_6$

Pathway:

Membrane Transporter/Ion Channel

Target:

Calcium Channel

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

723.26

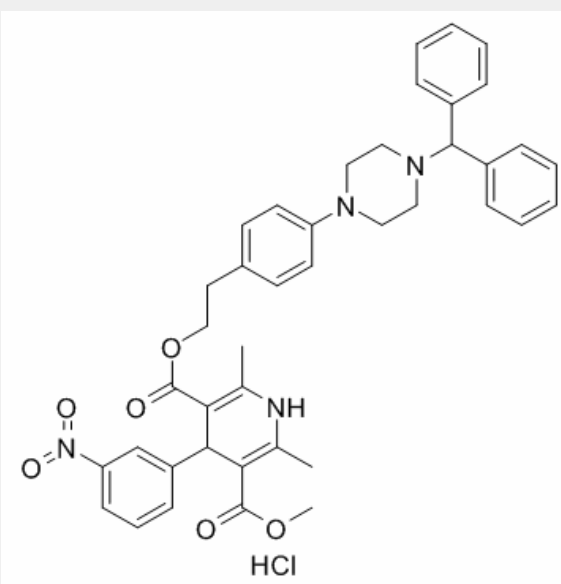
Product Description

AE0047 Hydrochloride is a **calcium** blocker, used in the research of hypertensive disease.

IC50 & Target: Calcium Channel^[1]

In Vitro: AE0047 Hydrochloride (4e) is a calcium antagonist^[1]. AE0047 inhibits [³H]nimodipine binding to rat cardiac membrane homogenate with an IC₅₀ of 0.26 nM^[2]. AE0047 (1 μM) inhibits the high K⁺-evoked vascular smooth muscle contraction, and also inhibits [³H]PN200-110 binding with a K_i of 40.9 nM^[3].

In Vivo: AE0047 (3 mg/kg) shows antihypertensive effect, and reduces systolic blood pressure with ED₃₀ of 1.1 mg/kg^[2]. AE0047 (1 or 3 mg/25g SP diet) inhibits blood pressure elevation and improves endothelium-dependent relaxation in response to acetylcholine in aorta isolated from stroke-prone spontaneously hypertensive rats (SHRSP)^[4].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!