

Product Data Sheet

Product Name: Azelnidipine

Cat. No.: GC15101

Chemical Properties

Cas. No. 123524-52-7

Chemical Name 3-O-(1-benzhydrylazetid-3-yl) 5-O-propan-2-yl 2-amino-6-methyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate

SMILES CC1=C(C(C(=C(N1)N)C(=O)OC2CN(C2)C(C3=CC=CC=C3)C4=CC=CC=C4)C5=CC(=CC=C5)[N+](=O)[O-])C(=O)OC(C)C

Formula C₃₃H₃₄N₄O₆

M.Wt 582.65

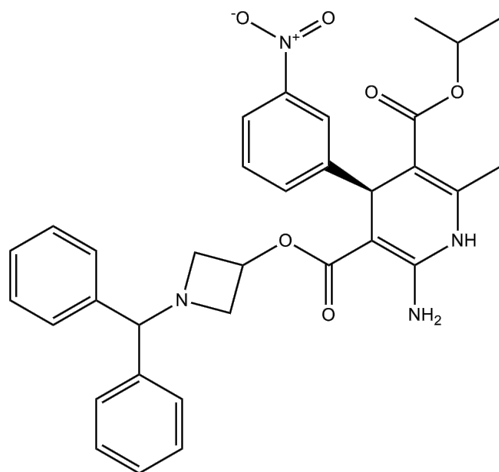
Solubility ≥ 27.15mg/mL in DMSO

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



Background

Azelnidipine (CS 905; Calblock) is a novel dihydropyridine derivative, a L-type calcium channel blocker, and an antihypertensive. IC₅₀ value: Target: L-type calcium channel. Acute administration of azelnidipine prevents a sudden drop of cardiac function after acute stress. Azelnidipine may have a protective role in inflammation associated with atherosclerosis.

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

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References:

- [1]. Komoda H, Inoue T, Node K. Anti-inflammatory properties of azelnidipine, a dihydropyridine-based calcium channel blocker. Clin Exp Hypertens. 2010 Jan;32(2):121-8.
- [2]. Kain V, Kumar S, Sitasawad SL. Azelnidipine prevents cardiac dysfunction in streptozotocin-diabetic rats by reducing intracellular calcium accumulation, oxidative stress and apoptosis. Cardiovasc Diabetol. 2011 Nov 4;10:97.
- [3]. Takano Y, Ueyama T, Ishikura F. Azelnidipine, unique calcium channel blocker could prevent stress-induced cardiac dysfunction like α - β blocker. J Cardiol. 2012 Jul;60(1):18-22.
- [4]. Shimizu T, Tanaka T, Iso T et al. Azelnidipine inhibits MSX2-dependent osteogenic differentiation and matrix mineralization of vascular smooth muscle cells. Int Heart J. 2012;53(5):331-5.
- [5]. Ohyama T, Sato K, Kishimoto K et al. Azelnidipine is a calcium blocker that attenuates liver fibrosis and may increase antioxidant defence. Br J Pharmacol. 2012 Feb;165(4b):1173-87.

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