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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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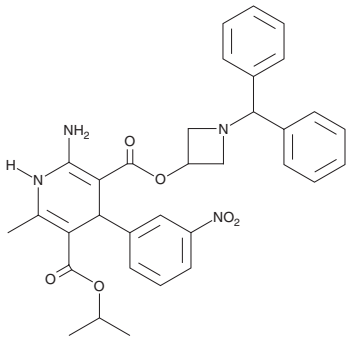
PRODUCT INFORMATION

Azelnidipine

Item No. 21249

CAS Registry No.:	123524-52-7
Formal Name:	2-amino-1,4-dihydro-6-methyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid, 3-[1-(diphenylmethyl)-3-azetidinyl] 5-(1-methylethyl) ester
Synonyms:	CS 905, RS 9054
MF:	$C_{33}H_{34}N_4O_6$
FW:	582.7
Purity:	≥98%
UV/Vis.:	λ_{max}: 255, 343 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Azelnidipine is supplied as a crystalline solid. A stock solution may be made by dissolving the azelnidipine in the solvent of choice. Azelnidipine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of azelnidipine in ethanol is approximately 15 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Azelnidipine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, azelnidipine should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Azelnidipine has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Azelnidipine is a third generation, dihydropyridine L-type calcium channel blocker with a slow onset profile that displays long-lasting antihypertensive activity in hypertensive rat models compared to other L-type calcium channel blockers.[1,2]

References

1. Oizumi, K., Nishino, H., Koike, H., *et al.* Antihypertensive effects of CS-905, a novel dihydropyridine Ca^{++} channel blocker. *Jpn. J. Pharmacol.* **51(1)**, 57-64 (1989).
2. Chen, B.-L., Zhang, Y.-Z., Luo, J.-Q., *et al.* Clinical use of azelnidipine in the treatment of hypertension in Chinese patients. *Ther. Clin. Risk Manag.* **11**, 309-318 (2015).

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