(±)-Felodipine
Item No. 17535

CAS Registry No.: 72509-76-3
Formal Name: 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-3,5-pyridinedicarboxylic acid, 3-ethyl 5-methyl ester
Synonyms: Agon, H 154/82
MF: C_{18}H_{19}Cl_{2}NO_{4}
FW: 384.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: \lambda_{\text{max}}: 236, 360 nm

Laboratory Procedures
For long term storage, we suggest that (±)-felodipine be stored as supplied at -20°C. It should be stable for at least two years.
(±)-Felodipine is supplied as a crystalline solid. A stock solution may be made by dissolving the (±)-felodipine in the solvent of choice. (±)-Felodipine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of (±)-felodipine in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.
(±)-Felodipine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (±)-felodipine should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. (±)-Felodipine 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.
(±)-Felodipine is an L-type calcium channel blocker that is selective over N-, R-, P/Q- and T-type calcium channels.\(^1\) It displays antihypertensive activity, lowering arterial blood pressure without altering cardiac contractility in an \textit{in vitro} model of myogenically active arterial smooth muscle.\(^2\)

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/17535

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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