WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman’s Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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PRODUCT INFORMATION

(+)-BAY-K-8644
Item No. 15263

CAS Registry No.: 98791-67-4
Formal Name: (4R)-1,4-dihydro-2,6-dimethyl-5-nitro-4-[2-(trifluoromethyl)phenyl]-3-pyridinecarboxylic acid
Synonyms: NI 105, R 4407
MF: C₁₆H₁₅F₃N₂O₄
FW: 356.3
Purity: ≥98%

UV/Vis.: λmax: 237, 273, 406 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

(+)-BAY-K-8644 is supplied as a crystalline solid. A stock solution may be made by dissolving the (+)-BAY-K-8644 in the solvent of choice. (+)-BAY-K-8644 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of (+)-BAY-K-8644 in these solvents is approximately 50 mg/ml.

(+)-BAY-K-8644 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (+)-BAY-K-8644 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. (+)-BAY-K-8644 has a solubility of approximately 0.1 mg/ml in a 1:9 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BAY-K-8644, originally described as a modulator of potential operated calcium channels, exists as two enantiomers that have opposite actions.1-3 (+)-BAY-K-8644 is an L-type channel blocker that has negative inotropic and vasodilatory effects at 1 μM.1-5 Intracerebroventricular administration of this enantiomer has no effect on motor function in mice, whereas (-)-BAY-K-8644 impairs rotarod and motor activity, an effect that is blocked by (+)-BAY-K-8644.2

References