Fluspirilene
Item No. 19530

CAS Registry No.: 1841-19-6
Formal Name: 8-[4,4-bis(4-fluorophenyl)butyl]-1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one
Synonyms: McN-JR 6218, R 6218, Redeptin
MF: C_{29}H_{31}F_{2}N_{3}O
FW: 475.6
Purity: ≥98%
UV/Vis.: λ_{max}: 252, 272, 293 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

Fluspirilene is supplied as a crystalline solid. A stock solution may be made by dissolving the fluspirilene in the solvent of choice. Fluspirilene is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of fluspirilene in these solvents is approximately 0.3, 10, and 15 mg/ml, respectively.

Fluspirilene is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, fluspirilene should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Fluspirilene has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Fluspirilene is a potent, non-competitive antagonist of agonist-activated L-type calcium channels (IC_{50} = 0.03 µM). In addition to its use in research as a calcium channel blocker, fluspirilene has potential application as an antipsychotic in schizophrenia.

References