PRODUCT INFORMATION

Pizotifen (malate)
Item No. 20765

CAS Registry No.: 5189-11-7
Formal Name: 4-(9,10-dihydro-4H-benzo[4,5]cyclohepta[1,2-b]thien-4-ylidene)-1-methylpiperidine, 2-hydroxybutanedioic acid
MF: C_{19}H_{21}NS • C_4H_6O_5
FW: 429.5
Purity: ≥98%
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

Pizotifen (malate) is supplied as a crystalline solid. A stock solution may be made by dissolving the pizotifen (malate) in the solvent of choice. Pizotifen (malate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of pizotifen (malate) in these solvents is approximately 0.5, 15, and 20 mg/ml, respectively.

Pizotifen (malate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, pizotifen (malate) should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Pizotifen (malate) has a solubility of approximately 0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Pizotifen is a triptan with high affinity for serotonin (5-HT) and dopamine receptors (K_{i} = 7.94 and 2.4 nM for 5-HT_{2C} and D_{2}, respectively).\textsuperscript{1,2} It is used for the prophylaxis of migraine headaches.\textsuperscript{3}

References