PRODUCT INFORMATION

Tenoxicam
Item No. 20304

CAS Registry No.: 59804-37-4
Formal Name: 4-hydroxy-2-methyl-N-2-pyridinyl- 2H-thieno[2,3-e]-1,2-thiazine-3-carboxamide-1,1-dioxide
Synonym: Ro 12-0068
MF: C13H11N3O4S2
FW: 337.4
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}} \): 222, 270, 355 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

Tenoxicam is supplied as a crystalline solid. A stock solution may be made by dissolving the tenoxicam in the solvent of choice. Tenoxicam is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of tenoxicam in these solvents is approximately 20 mg/ml.

Tenoxicam is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, tenoxicam should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Tenoxicam has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Tenoxicam is a non-steroidal anti-inflammatory drug (NSAID) that acts as a COX inhibitor (\( IC_{50} \) = 20 and 322 nM for COX-1 and COX-2, respectively).\(^1,2\) It demonstrates analgesic and antipyretic properties and has been used to clinically treat osteoarthritis or to control acute pain.\(^3,4\)

References