Zaltoprofen
Item No. 14662

CAS Registry No.: 74711-43-6
Formal Name: 10,11-dihydro-α-methyl-10-oxo-dibenzo[b,f]thiepin-2-acetic acid
Synonyms: CN 100, Soleton
MF: C17H14O3S
FW: 298.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ<sub>max</sub>: 228, 329 nm

Laboratory Procedures
For long term storage, we suggest that zaltoprofen be stored as supplied at -20°C. It should be stable for at least two years.
Zaltoprofen is supplied as a crystalline solid. A stock solution may be made by dissolving the zaltoprofen in the solvent of choice. Zaltoprofen is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of zaltoprofen in these solvents is approximately 11, 16, and 25 mg/ml, respectively.
Zaltoprofen is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, zaltoprofen should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Zaltoprofen 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.
Zaltoprofen is a cyclooxygenase (COX) inhibitor that displays slight preferential inhibition for COX-2 (IC<sub>50</sub>s = 1.3 and 0.34 μM for COX-1 and COX-2, respectively).

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14662

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.