Actarit
Item No. 20852

CAS Registry No.: 18699-02-0
Formal Name: 4-(acetylamino)-benzeneacetic acid
Synonyms: 4-Acetylaminophenylacetic Acid, MS-932, NSC 170317
MF: C_{10}H_{11}NO_3
FW: 193.2
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}} \): 246 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Actarit is supplied as a crystalline solid. A stock solution may be made by dissolving the actarit in the solvent of choice, which should be purged with an inert gas. Actarit is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of actarit in ethanol is approximately 3 mg/ml and approximately 20 mg/ml in DMSO and DMF.

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

Description

Actarit is an anti-inflammatory agent.\(^1,2\) It inhibits carbonic anhydrase II (CAII; \( IC_{50} = 422 \text{ nM} \)).\(^3\) Actarit decreases disease severity in a mouse model of arthritis induced by type II collagen, as well as in a rat model of experimental autoimmune encephalomyelitis (EAE).\(^1,2\)

References