Sulfinpyrazone
Item No. 17847

CAS Registry No.: 57-96-5
Formal Name: 1,2-diphenyl-4-[2-(phenylsulfinyl)ethyl]-3,5-pyrazolidinedione
Synonyms: G-28315, NSC 75925
MF: C_{23}H_{20}N_2O_2S
FW: 404.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: \( \lambda_{\text{max}} = 245 \text{ nm} \)

Laboratory Procedures
For long term storage, we suggest that sulfinpyrazone be stored as supplied at -20°C. It should be stable for at least two years.

Sulfinpyrazone is supplied as a crystalline solid. A stock solution may be made by dissolving the sulfinpyrazone in the solvent of choice. Sulfinpyrazone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of sulfinpyrazone in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Sulfinpyrazone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, sulfinpyrazone should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Sulfinpyrazone 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
Sulfinpyrazone is a uricosuric agent that competitively inhibits uric acid (Item No. 16219) reabsorption in kidney proximal tubules, which is a key mechanism targeted in the treatment of gout.\(^1\)\(^2\) It can also inhibit degranulation of platelets, reducing the release of ADP and thromboxane and diminishing platelet aggregation.\(^3\)

References

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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