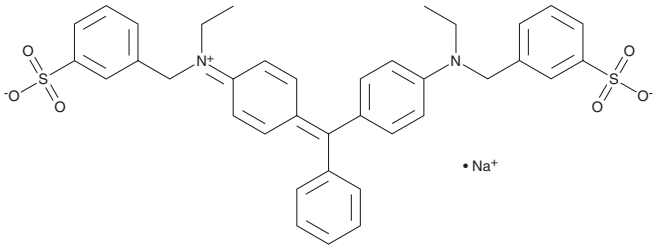
PRODUCT INFORMATION

Acid Green 3

Item No. 44536

CAS Registry No.: 4680-78-8
Formal Name: N-ethyl-N-[4-[[4-[ethyl[(3-sulfophenyl)methyl]amino]phenyl]phenylmethylene]-2,5-cyclohexadien-1-ylidene]-3-sulfo-benzenemethanaminium, inner salt, monosodium salt
Synonyms: C.I. 42085, C.I. Food Green 1, FD&C Green 1, Guinea Green B, Pontacyl Green B, NSC 5016, NSC 8684
MF: $C_{37}H_{35}N_2O_6S_2 \bullet Na$
FW: 690.8
Purity: A solid
UV/Vis.: λ_{max}: 619 nm
Supplied as: A 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

Acid green 3 is supplied as a solid. A stock solution may be made by dissolving the acid green 3 in the solvent of choice, which should be purged with an inert gas. acid green 3 is slightly soluble (0.1-1 mg/ml) in ethanol and DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of acid green 3 can be prepared by directly dissolving the solid in aqueous buffers. Acid green 3 is sparingly soluble (1-10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

Acid green 3 is a triphenylmethane dye.[1] It inhibits ATP-binding cassette transporter 2 (ABCG2) in membrane vesicles overexpressing human *ABCG2* (IC_{50} = 2.99 µM).[2] Acid green 3 (3% of the diet) induces malignant tumor formation in rats.[1] Formulations containing acid green 3 have been used as excipients in drug products.

References

1. Mannell, W.A., Grice, H.C., and Allmark, M.G. Chronic toxicity studies on food colours. V. Observations on the toxicity of Brilliant Blue FCF, Guinea Green B and Benzyl Violet 4B in rats. *J. Pharm. Pharmacol.* **14,** 378-384 (1962).
2. Zou, L., Pottel, J., Khuri, N., *et al.* Interactions of oral molecular excipients with breast cancer resistance protein, BCRP. *Mol. Pharm.* **17(3),** 748-756 (2020).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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