
Product Data Sheet

Product Name: Azure B
Cat. No.: GC39187

Chemical Properties

Cas. No. 531-55-5

SMILES CNC1=CC2=[S+]C3=C(C=CC(N(C)C)=C3)N=C2C=C1.[Cl-]

Formula C15H16ClN3S M.Wt 305.83

Solubility DMSO : 10 mg/mL (32.70 mM; ultrasonic and warming and heat to 60°C) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Azure B is a cationic dye and the major metabolite of Methylene blue. Azure B is used in making Azure eosin stains for blood smear staining. Azure B is a high-potency, selective and reversible inhibitor of monoamine oxidases (MAO)-A, with IC50s of 11 and 968 nM for recombinant human MAO-A and MAO-B, respectively. Azure B possesses significant antidepressant-like effects[1][2].

[1]. LÖhr W, et al. The azure dyes: their purification and physicochemical properties. II. Purification of azure B. Stain Technol. 1975 May;50(3):149-56. [2]. Delport A, et al. Azure B and a synthetic structural analogue of methylene blue, ethylthioninium chloride, present with antidepressant-like properties. Life Sci. 2014 Nov 11;117(2):56-66.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA