
Product Data Sheet

Product Name: Reactive Blue 4

Cat. No.: GC37073

Chemical Properties

Cas. No. 13324-20-4

SMILES O=S(C(C(N)=C1C2=O)=CC(NC3=CC=C(S(=O)(O)=O)C(NC4=NC(Cl)=NC(Cl)=N4)=C3)=C1C(C5=C2C=CC=C5)=O)(O)=OFormula $C_{23}H_{14}Cl_2N_6O_8S_2$ M.Wt 637.43

Solubility DMSO: 83.33 mg/mL (130.73 mM) 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**

Reactive Blue 4 is an anthraquinone dye, as a single colorimetric chemosensor for sequential determination of multiple analytes with different optical responses in aqueous media. Reactive Blue 4 is phytotoxic, cytotoxic and genotoxic. Reactive Blue 4 [1][2].

[1]. Reactive Blue 4 as a Single Colorimetric Chemosensor for Sequential Determination of Multiple Analytes with Different Optical Responses in Aqueous Media: Cu²⁺-Cysteine Using a Metal Ion Displacement and Cu²⁺-Arginine Through the Host-Guest Interaction.

[2]. Chaudhari AU, et al. Effective biotransformation and detoxification of anthraquinone dye reactive blue 4 by using aerobic bacterial granules. Water Res. 2017 Oct 1;122:603-613.

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

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