
Product Data Sheet

Product Name: Nuclear Yellow

Cat. No.: GC18548

Chemical Properties

Cas. No. 74681-68-8

Chemical Name 4-[5-(4-methyl-1-piperazinyl)[2,5'-bi-1H-benzimidazol]-2'-yl]-benzenesulfonamide, trihydrochloride

SMILES CN1CCN(C2=CC(N=C(C3=CC(N=C(C4=CC=C(S(N)(=O)=O)C=C4)N5)=C5C=C3)N6)=C6C=C2)CC1.Cl.Cl.ClFormula C₂₅H₂₅N₇O₂S.3HCl M.Wt 597Solubility H₂O : ≥ 6 mg/mL (10.05 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**

Nuclear yellow is a DNA-selective dye that is used to label DNA content in live and fixed cells. Upon binding to DNA, nuclear yellow fluoresces, and this fluorescence can be measured using fluorescence microscopy, microplate fluorometry, or flow cytometry. Nuclear yellow has commonly been used in combination with retrograde tracers for two-color neuronal mapping. It can also be used to photoconvert diaminobenzidine (DAB) into an electron-dense reaction product for light and electron microscopy applications. Nuclear yellow displays excitation/emission maxima of 355/495 nm, respectively.

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

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