

Product Information

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Product Name: Hoechst 33342

CAS Number: 23491-52-3

IUPAC Name: 2'-(4-Ethoxyphenyl)-5-(4-methyl-1-piperazinyl)-2,5'-bi-1*H*-benzimidazole trihydrochloride

Catalog No.: 5117

Batch No.: 1

EC Number: 245-690-6

Description:

Cell permeable fluorescent DNA stain; binds minor groove of AT-rich regions. Used to quantify DNA in viable cells.

Physical and Chemical Properties:

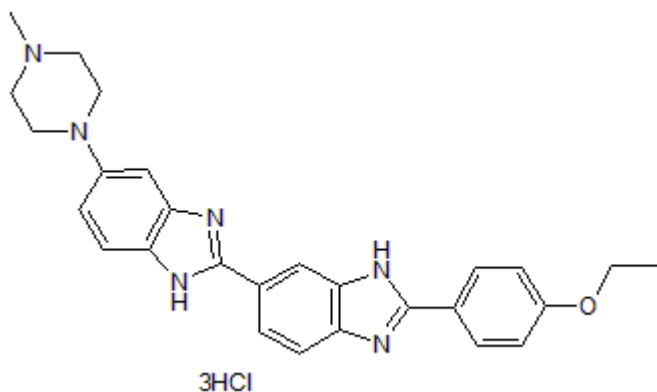
Batch Molecular Formula: C₂₇H₂₈N₆O.3HCl.7H₂O

Batch Molecular Weight: 688.04

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 100 mM

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Portugal and Waring (1988) Assignment of DNA binding sites for 4',6-diamidine-2-phenylindole and bisbenzimidazole (Hoechst 33258). A comparative footprinting study. *Biochim.Biophys.Acta.* **949** 158. PMID: 2449244.

Loken (1980) Simultaneous quantitation of Hoechst 33342 and immunofluorescence on viable cells using a fluorescence activated cell sorter. *Cytometry* **1** 136. PMID: 7028425.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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