

Product Information

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Product Name: Hoechst 33258

Catalog No.: 5824

Batch No.: 1

CAS Number: 23491-45-4

EC Number: 245-690-6

IUPAC Name: 4-[6-(4-Methyl-1-piperazinyl)[2,6'-bi-1*H*-benzimidazol]-2'-yl]phenol trihydrochloride

Description:

Fluorescent dye. Binds the minor groove of DNA at A and T rich regions. Can be used as indicator of apoptosis.

Physical and Chemical Properties:

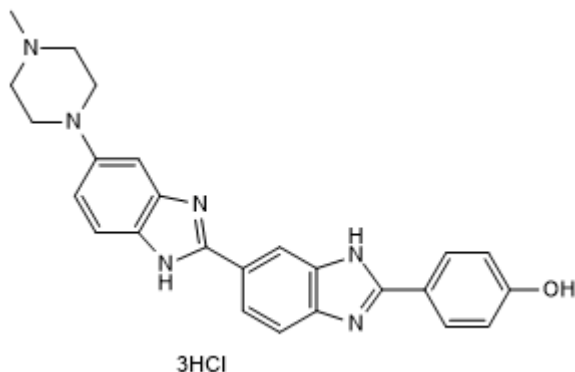
Batch Molecular Formula: C₂₅H₂₄N₆O.3HCl.2H₂O

Batch Molecular Weight: 569.91

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:

DMSO to 20 mM

water to 100 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:

Oberhammer *et al* (1993) Apoptotic death in epithelial cells: cleavage of DNA to 300 and/or 50 kb fragments prior to or in the absence of internucleosomal fragmentation. *EMBO J.* **12** 3679. PMID: 8253089.

Jin and Breslauer (1988) Characterization of the minor groove environment in a drug-DNA complex: bisbenzimidazole bound to the poly[d(AT)].poly[d(AT)]duplex. *Proc.Natl.Acad.Sci.U.S.A.* **85** 8939. PMID: 2461559.

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

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