

Hoechst 33258 analog 6

Catalog No: tcsc1319

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:

129244-66-2

Formula:

 $C_{33}H_{40}N_{6}O$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility: 10 mM in DMSO

Observed Molecular Weight: 536.71

Product Description

Hoechst 33258 analog 6 is a anglog of Hoechst stains(Hoechst 33258), which are part of a family of blue fluorescent dyes used to

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stain DNA.

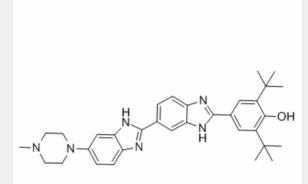
IC50 Value:

Target:

These Bis-benzimides were originally developed by Hoechst AG, which numbered all their compounds so that the dye Hoechst 33342 is the 33342nd compound made by the company. There are three related Hoechst stains: Hoechst 33258, Hoechst 33342, and Hoechst 34580. The dyes Hoechst 33258 and Hoechst 33342 are the ones most commonly used and they have similarexcitation/emission spectra. Both dyes are excited by ultraviolet light at around 350 nm, and both emit blue/cyan fluorescent light around anemission maximum at 461 nm. Unbound dye has its maximum fluorescence emission in the 510-540 nm range. Hoechst dyes are soluble in water and in organic solvents such as dimethyl formamide or dimethyl sulfoxide. Concentrations can be achieved of up to 10 mg/mL. Aqueous solutions are stable at 2-6 °C for at least six months when protected from light. For long-term storage the solutions are instead frozen at \leq -20 °C.

The dyes bind to the minor groove of double-stranded DNA with a preference for sequences rich in adenine andthymine. Although the dyes can bind to all nucleic acids, AT-rich double-stranded DNA strands enhance fluorescence considerably.

Hoechst dyes are cell-permeable and can bind to DNA in live or fixed cells. Therefore, these stains are often called supravital, which means that cells survive a treatment with these compounds. Cells that express specific ATP-binding cassette transporter proteins can also actively transport these stains out of their cytoplasm.



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