

Hoechst 34580

Catalog No: tcsc1303



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

23555-00-2

Formula:

$C_{27}H_{29}N_7$

Pathway:

Neuronal Signaling

Target:

Amyloid- β

Purity / Grade:

>98%

Solubility:

DMSO : \geq 47 mg/mL (104.08 mM)

Alternative Names:

HOE 34580

Observed Molecular Weight:

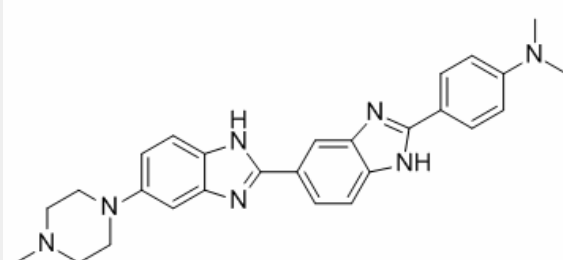
451.57

Product Description

Hoechst 34580 is a cell-permeable fluorescent dye for staining DNA and nuclei.

IC₅₀ & Target: Amyloid- β ^[1]

In Vitro: Hoechst 34580 prefers to locate near hydrophobic regions with binding affinity with the inhibition constant IC₅₀ of 0.86±0.05 μ M for Hoechst 34580. Hoechst 34580 is a good candidate for treating the Alzheimer's disease by inhibiting A β formation. 50 μ M A β 42 solutions co-incubated with 100, 25, 12.5, 3.125, 0.78, and 0.1, 0.01 μ M Hoechst 34580 at 37 °C for 70 h. Hoechst 34580 can inhibit the aggregation of A β 42 in a dose-dependent manner. And the half-maximal concentration (IC₅₀) is examined. The IC₅₀ is obtained by measuring the concentration of Hoechst 34580 while maintaining the A β 42 concentration which gave 0.86±0.05 μ M for Hoechst 34580^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!