



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 : ≥ 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- $\beta^{[1]}$

In Vitro: Hoechst 34580 prefers to locate near hydrophobic regions with binding affinity with the inhibition constant IC $_{50}$ of 0.86±0.05 μM for Hoechst 34580. Hoechst 34580 is a good candidate for treating the Alzheimer's disease by inhibiting Aβ formation. 50 μM Aβ42 solutions co-incubated with 100, 25, 12.5, 3.125, 0.78, and 0.1, 0.01 μM Hoechst 34580 at 37 °C for 70 h. Hoechst 34580 can inhibit the aggregation of Aβ42 in a dose-dependent manner. And the half-maximal concentration (IC $_{50}$) is examined. The IC $_{50}$ is obtained by measuring the concentration of Hoechst 34580 while maintaining the Aβ42 concentration which gave 0.86±0.05 μM for Hoechst 34580^[1].

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