

Product Datasheet

Hoechst 34580 (orb1219368)

Catalog Number	orb1219368
Category	Small Molecules
Description	Hoechst 34580, a cell-permeable fluorescent dye, is used for staining DNA and nuclei. Hoechst 34580 is a good candidate for treating 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. The IC ₅₀ is obtained by measuring the concentration of Hoechst 34580 while maintaining the A β 42 concentration which gave 0.86 \pm 0.05 μ M for Hoechst 34580.
Target	Beta Amyloid
Purity	>98% (HPLC)
MW	451.57
Target Areas	Amyloid- β
Solubility (25°C)	DMSO:47 mg/mL (104.08 mM)
CAS Number	23555-00-2
Formula	C ₂₇ H ₂₉ N ₇
SMILES	<chem>CN1CCN(C2=CC=C3C(N=C(C4=CC=C5C(N=C(C6=CC=C(N(C)C)C=C6)N5)=C4)N3)=C2)CC1</chem>
Storage	Storage temperature: -20°C. Stability: \geq 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

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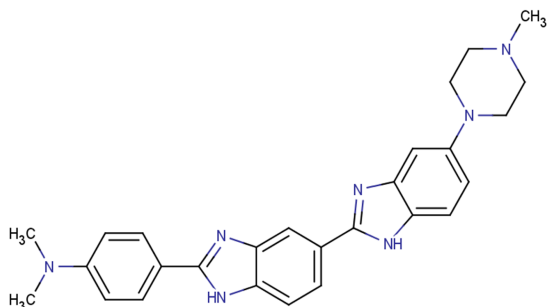
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Chemical structure of Hoechst 34580

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