

Product datasheet

Thioflavin T, Fluorescent cell-permeable amyloid binding benzothiazole salt ab120751

[16 References](#) [1 Image](#)

Overview

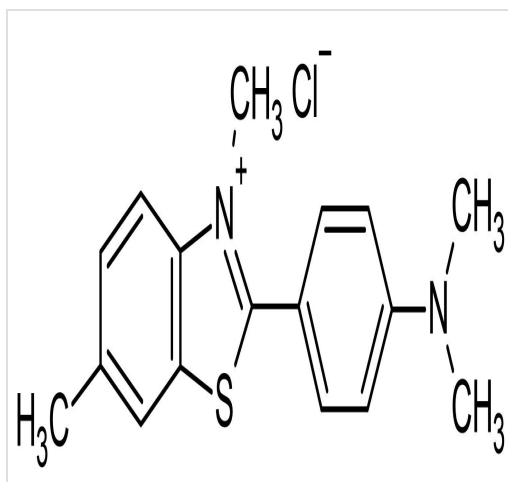
Product name	Thioflavin T, Fluorescent cell-permeable amyloid binding benzothiazole salt
Description	Fluorescent cell-permeable amyloid binding benzothiazole salt
Biological description	Fluorescent cell-permeable amyloid binding benzothiazole salt. Dye used to visualise stacked β sheets <i>in vitro</i> and <i>in vivo</i> . Binding induces a shift in excitation maximum (385 nm to 450 nm) and emission maximum (445 nm to 482 nm). Highly soluble in water. Limited ability to cross the blood-brain barrier.
Purity	> 97%
CAS Number	2390-54-7
Chemical structure	

Properties

Chemical name	4-(3,6-Dimethyl-1,3-benzothiazol-3-ium-2-yl)-N,N-dimethylaniline chloride
Molecular weight	318.86
Molecular formula	C ₁₇ H ₁₉ ClN ₂ S
PubChem identifier	16953
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 25mM and in DMSO to 100 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Toxic, refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

SMILESCC1=CC2=C(C=C1)[N+](=C(S2)C3=CC=C(C=C3)N(C)C)C.[Cl-]**Source**

Synthetic

Images

Chemical Structure - Thioflavin T, Fluorescent cell-permeable amyloid binding benzothiazole salt (ab120751)

2D chemical structure image of ab120751, Thioflavin T, Fluorescent cell-permeable amyloid binding benzothiazole salt

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