



## Tau Thioflavin T Assay [↗](#)

Alexandra Netter-Glangeaud<sup>1</sup>

<sup>1</sup>StressMarq Biosciences Inc

[dx.doi.org/10.17504/protocols.io.wxgffjw](https://doi.org/10.17504/protocols.io.wxgffjw)

StressMarq

Patricia Thomson

### EXTERNAL LINK

<https://www.stressmarq.com/support/technical-support/protocols/tau-protocol/>

### PROTOCOL STATUS

#### Working

We use this protocol in our group and it is working

### MATERIALS

NAME	CATALOG #	VENDOR
Thioflavin T	T3516	Sigma Aldrich
Active Human Recombinant Tau441 (2N4R) P301S mutant Protein Monomer	SPR-327	StressMarq Biosciences
Active Human Recombinant Tau (K18) P301L mutant Protein Monomer	SPR-328	StressMarq Biosciences
Active Human Recombinant Tau441 (2N4R) P301S mutant Protein Pre-formed Fibrils	SPR-329	StressMarq Biosciences
Active Human Recombinant Tau (K18) P301L mutant Protein Pre-formed Fibrils	SPR-330	StressMarq Biosciences
Microplate 96 well PS F-bottom (chimney well) black non-binding	655900	greiner bio-one

- 1 A 1mM stock solution of Thioflavin T was prepared in dH<sub>2</sub>O (prepared fresh and filtered through a 0.2 µm syringe filter).
- 2 The thioflavin T was diluted in PBS pH 7.4 so that the final Thioflavin T concentration in each well was 25 µM (volume per well = 100 µL).
- 3 10 uM Heparin was added to each well.
- 4 Tau aliquots were thawed at room temperature just before use.
- 5 Either fibril or monomer (or both) was added to the appropriate wells. The well contents were pipetted up and down to mix.
- 6 The plate was sealed and placed in a shaking incubator (800 rpm) at 37 °C

7 Fluorescence was measured on a Molecular Devices Gemini XPS Microplate Reader using Softmax Pro software version 6.5.1.

**XPS Microplate Reader Settings:**

**Temperature:** 37°C

**Read Type:** Well Scan

**Wavelength:** Excitation at 450 nm and Emission at 485 nm

**PMT Gain:** Automatic

**Flashes per read:** 6

**Shake:** 20 seconds before read

8 The plate was re-sealed and placed into the shaking incubator at 37°C.

9 Readings were taking at regular intervals from 1 hour to 72 hours.



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