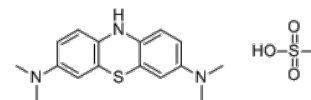


**Product Name** : Leucomethylene blue mesylate  
**Cat. No.** : PC-35456  
**CAS No.** : 1236208-20-0  
**Molecular Formula** : C<sub>17</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub>S<sub>2</sub>  
**Molecular Weight** : 379.493  
**Target** : Amyloids  
**Solubility** : 10 mM in DMSO



## Biological Activity

Leucomethylene blue mesylate (Trx0237, LMTX, Hydromethylthionine) is a **Tau aggregation inhibitor** (TAI) with K<sub>i</sub> of 0.12 μM for intracellular TAI activity.

Leucomethylene blue mesylate disrupts paired helical filaments (PHFs) isolated from AD brain tissues at 0.16 μM, delays cellular senescence and enhances key mitochondrial biochemical pathways.

Leucomethylene blue mesylate demonstrates activities in clinical trials in Alzheimer's disease (AD) with drugs targeting β-amyloid accumulation in the brain.

## References

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Atamna H, et al. FASEB J. 2008 Mar;22(3):703-12.

Seripa D, et al. Expert Rev Neurother. 2016;16(3):259-77.

Wilcock GK, et al. J Alzheimers Dis. 2018;61(1):435-457.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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