

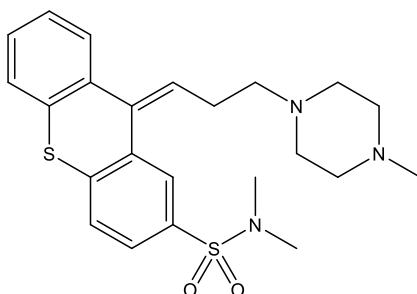
**Catalog # 10-3998**

**Thiothixene**

CAS# 3313-26-6

((Z)-N,N-Dimethyl-9-[3-(4-methyl-1-iperazinyl)propylidene]thioxanthene-2-sulfonamide

Lot # FBS4064



Thiothixene is a clinically useful typical antipsychotic.<sup>1</sup> It acts as an antagonist at multiple receptors including dopamine D<sub>2</sub> and D<sub>3</sub> (sub-nanomolar), histamine H<sub>1</sub>, serotonin 5-HT<sub>7</sub>, and α<sub>1/2</sub>-adrenergic. Thiothixene stimulates efferocytosis, the phagocytic removal of apoptotic cells by macrophages, *via* increased expression of the retinol-binding protein receptor Stra6L leading to arginase 1 production.<sup>2</sup> A potential new use for an old drug to facilitate the removal of diseased tissue.

- 1) Wyatt and Grady. (1990), *Thiothixene* in Analytical Profiles of Drug Substances; **Vol.18** Academic Press 527
- 2) Kojima *et al.* (2025), *The antipsychotic drug thiothixene stimulates macrophages to clear pathogenic cells by inducing arginase 1 and continual efferocytosis*; *Sci. Signal.* **18** eads6584

**PHYSICAL DATA**

Molecular Weight: 443.62  
Molecular Formula: C<sub>23</sub>H<sub>29</sub>N<sub>3</sub>O<sub>2</sub>S<sub>2</sub>  
Purity: >98% by HPLC  
NMR: (Conforms)  
Solubility: DMSO (20 mg/ml with warming)  
Physical Description: White solid  
Storage and Stability: Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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