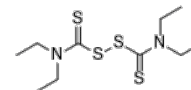


Product Name : Disulfiram
Cat. No. : PC-22705
CAS No. : 97-77-8
Molecular Formula : C₁₀H₂₀N₂S₄
Molecular Weight : 296.52
Target : Aldehyde Dehydrogenase (ALDH)
Solubility : 10 mM in DMSO



Biological Activity

Disulfiram (Tetraethylthiuram disulfide) is a specific inhibitor of aldehyde-dehydrogenase (**ALDH1**) with IC₅₀ of 0.13 μM for ALDH1A1 and 3.4 μM for ALDH2, also inhibits USP2 and **USP21** with IC₅₀ of 25.0 and 3.7 μM respectively. Disulfiram also inhibits gasdermin D (GSDMD) pore formation in liposomes and inflammasome-mediated pyroptosis and IL-1β secretion in human and mouse cells.

References

- Lipsky J.J., et al. *Chem. Biol. Interact.* 2001;130–132:93–102.
- Lin HC, et al. *Int J Biol Macromol.* 2021 Apr 15;176:490-497.

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

E-mail: tech@probechem.com