

Product Name	: T-448
Synonyms	: T448; T 448
Cat No.	: M12284
CAS Number	: 1597426-53-3
Molecular Formula	: C ₂₁ H ₂₄ N ₄ O ₅ S
Formula Weight	: 444.51
Chemical Name	: 3-((1S,2R)-2-(cyclobutylamino)cyclopropyl)-N-(5-methyl-1,3,4-thiadiazol-2-yl)benzamide fumarate
Description	: T-448 (T448) is a specific inhibitor of LSD1 enzyme activity, enhances H3K4 methylation in primary cultured rat neurons but has little impact on LSD1-GFI1B complex in human TF-1a erythroblasts; increases brain H3K4 methylation and partially restored learning function in mice with NMDA receptor hypofunction, shows unique therapeutic approaches for central nervous system disorders associated with epigenetic dysregulation.
Pathway	: Chromatin/Epigenetic
Target	: Histone Demethylase
Receptor	: Histone Demethylase
Solubility	: —
SMILES	: <chem>CC1=NN=C(S1)NC(=O)C2=CC=CC(=C2)C3CC3NC4CCCC4.C(=CC(=O)O)C(=O)O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Matsuda S, et al. Neuropsychopharmacology. 2018 Dec 22. doi: 10.1038/s41386-018-0300-9.