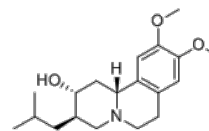


Product Name : NBI-98782
Cat. No. : PC-49734
CAS No. : 85081-18-1
Molecular Formula : C₂₉H₄₅NO₇S
Molecular Weight : 551.7
Target : Monoamine Transporter
Solubility : 10 mM in DMSO



Biological Activity

NBI-98782 (RRR-dihydro-tetrabenazine, RRR-DHTBZ, (+)- α -HTBZ) is a potent, highly selective **VMAT2** inhibitor (K_i=2 nM) and tetrabenazine metabolite.

RRR-DHTBZ displays >1000-fold selective in a broad-panel selectivity screen, including monoamine receptors.

RRR-DHTBZ displayed dose-dependent efficacy in both antipsychotic models (PPI and CAR) equivalent in magnitude to either typical or atypical antipsychotics.

RRR-DHTBZ elicited escape failures (indicative of sedation, ≥ 0.6 mg/kg) and at the highest dose tested produced catalepsy (motor inhibition, 1.2 mg/kg).

RRR-DHTBZ synergizes with the antipsychotics risperidone or olanzapine in suppressing conditioned avoidance behavior.

RRR-DHTBZ is effective in animal models of schizophrenia and potentiates the behavioral potency of antipsychotics in these models without potentiating weight gain.

References

Grigoriadis DE, et al. *J Pharmacol Exp Ther* 361:454–461.

Samuel R J Hoare, et al. *J Pharmacol Exp Ther*. 2022 May;381(2):79-95.

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

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