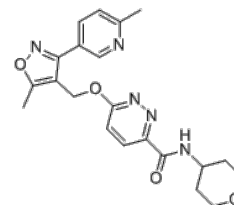


Product Name : Alogabat
Cat. No. : PC-38382
CAS No. : 2230009-48-8
Molecular Formula : C₂₁H₂₃N₅O₄
Molecular Weight : 409.446
Target : GABA Receptor
Solubility : 10 mM in DMSO



1. Patent WO2018104419A1.
2. Cecere G, et al. **Front Pharmacol.** 2025 Jul

Biological Activity

Alogabat (RG7816, RO7017773) is a potent, selective **GABAA-α5 receptors** positive allosteric modulator (PAM) with K_i of 7.9 nM for GABAA-α5β3γ2 receptors in rats, 37-, 26-, and 18-fold selectivity over GABAA α1β3γ2, α2β3γ2, and α3β3γ2, respectively.

Alogabat (RG7816, RO 7017773) has a similar pharmacological profile in human recombinant GABAA receptor subtypes. Alogabat enhances GABA-evoked responses of rat and human α5-containing receptors by 167% and 72%, respectively. Alogabat potentiates other receptor subtypes to a much lesser extent than α5-containing receptors.

Alogabat normalized elevated self-grooming behavior in both Cntnap2^{-/-} and BTBR mice and exhibited antiepileptic activity in rats.

Alogabat showed beneficial effects in mouse models relevant to neurodevelopmental disorders and anti-seizure activity.

References

21;16:1626078.

