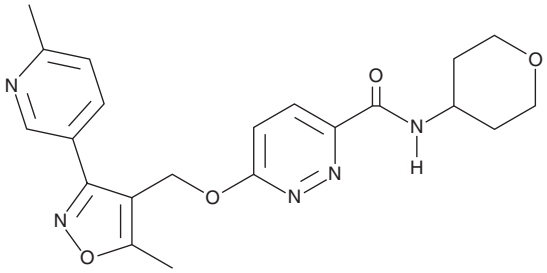
PRODUCT INFORMATION

Alogabat

Item No. 46377

CAS Registry No.: 2230009-48-8
Formal Name: 6-[[5-methyl-3-(6-methyl-3-pyridinyl)-4-isoxazolyl]methoxy]-N-(tetrahydro-2H-pyran-4-yl)-3-pyridazinecarboxamide
Synonyms: RG-7816, RO7017773
MF: $C_{21}H_{23}N_5O_4$
FW: 409.4
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Alogabat is supplied as a solid. A stock solution may be made by dissolving the alogabat in the solvent of choice, which should be purged with an inert gas. Alogabat is soluble (≥10 mg/ml) in DMSO.

Description

Alogabat is a positive allosteric modulator of the $GABA_A$ receptor ($GABA_AR$).[1] It potentiates GABA-stimulated currents in *X. laevis* oocytes expressing $\alpha_5\beta_3\gamma_2$ and $\alpha_5\beta_3\gamma_3$ subunit-containing $GABA_ARs$ ($EC_{50}s$ = 12 and 20 nM, respectively). It is selective for $\alpha_5\beta_3\gamma_2$ subunit-containing $GABA_ARs$ over $\alpha_1\beta_3\gamma_2$, $\alpha_2\beta_3\gamma_2$, and $\alpha_3\beta_3\gamma_2$ subunit-containing $GABA_ARs$ ($K_i s$ = 10.9, 415.8, 178.3, and 113 nM, respectively) and is greater than 917-fold selective over a panel of 56 receptors, ion channels, and enzymes at 10 µM. Alogabat (60-120 mg/kg, i.p.) reduces repetitive self-grooming behavior in a BTBR mouse model of autism spectrum disorder (ASD). It inhibits seizures induced by pentylenetetrazole (PTZ; Item No. 18682) in rats when administered orally at a dose of 15 or 30 mg/kg.

Reference

1. Cecere, G., Ballard, T.M., Knoflach, F., *et al.* Preclinical pharmacology of alogabat: A novel $GABA_A$-α5 positive allosteric modulator targeting neurodevelopmental disorders with impaired $GABA_A$ signaling. *Front. Pharmacol.* **16:1626078**, (2025).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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