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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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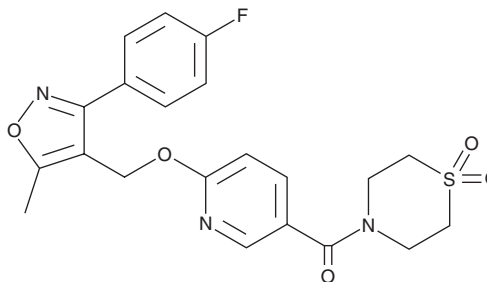
PRODUCT INFORMATION



Basmisanil

Item No. 21137

CAS Registry No.: 1159600-41-5
Formal Name: (1,1-dioxido-4-thiomorpholinyl)
[6-[[[3-(4-fluorophenyl)-5-methyl-4-isoxazolyl]
methoxy]-3-pyridinyl]-methanone
Synonym: RG-1662
MF: C₂₁H₂₀FN₃O₅S
FW: 445.5
Purity: ≥95%
UV/Vis.: λ_{max}: 233 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Basmisanil is supplied as a crystalline solid. A stock solution may be made by dissolving the basmisanil in the solvent of choice. Basmisanil is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of basmisanil in these solvents is approximately 30 mg/ml.

Description

Basmisanil is a negative allosteric modulator of α_5 subunit-containing GABA_A receptors (K_i = 0.005 μ M in HEK293 cells expressing the human $\alpha_5\beta_3\gamma_2$ subunit-containing GABA_A receptor).¹ It selectively binds to α_5 over α_1 , α_2 , or α_3 subunit-containing GABA_A receptors (K_i s = 1.031, 0.458, and 0.51 μ M, respectively) as well as a panel of 78 receptors, transporters, and ion channels at 10 μ M. Basmisanil inhibits GABA-induced currents in *Xenopus* oocytes expressing the human $\alpha_5\beta_3\gamma_2$ subunit-containing GABA_A receptor (IC_{50} = 0.008 μ M), an effect that can be blocked by flumazenil (Item No. 14252). It reverses diazepam-induced cognitive impairments in rats in the Morris water maze when administered at a dose of 10 mg/kg.

References

1. Hipp, J.F., Knoflach, F., Comley, R., *et al.* Basmisanil, a highly selective GABA_A- α_5 negative allosteric modulator: Preclinical pharmacology and demonstration of functional target engagement in man. *Sci. Rep.* **11**(1), 7700 (2021).

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.

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