SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

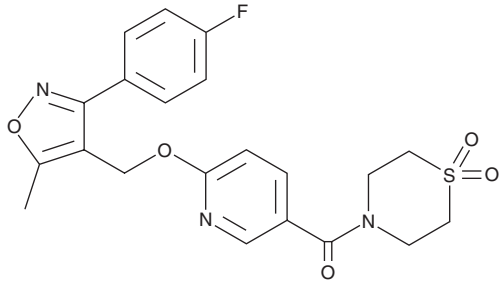
linkedin.com/company/szaboscandic

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:	$C_{21}H_{20}FN_3O_5S$
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 µM 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_is = 1.031, 0.458, and 0.51 µM, respectively) as well as a panel of 78 receptors, transporters, and ion channels at 10 µM. 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 µM), 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).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM