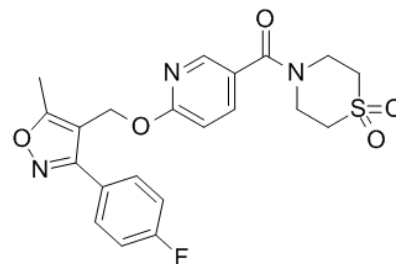


Product Name : Basmisanil
Cat. No. : PC-45060
CAS No. : 1159600-41-5
Molecular Formula : C₂₁H₂₀FN₃O₅S
Molecular Weight : 445.464
Target : GABA Receptor
Solubility : DMSO: ≥ 32 mg/mL



Biological Activity

Basmisanil (RG1662) is a potent, selective negative allosteric modulator of **GABAA receptor α5**-subtype with binding K_i of 5 nM for recombinant human GABAA-α5 receptors.

Basmisanil (RG1662) displays >90-fold selectivity versus α1, α2, and α3 subunit-containing receptors.

Basmisanil (RG1662) inhibits GABA-induced currents at GABAA-α5, yet has little or no effect at the other receptor subtypes.

Basmisanil (RG1662) attenuated diazepam-induced spatial learning impairment in rats (Morris water maze), improved executive function in non-human primates (object retrieval), without showing anxiogenic or proconvulsant effects in rats.

References

Myers JF, et al. *J Cereb Blood Flow Metab.* 2017 Jun;37(6):2137-2148.

Costa AC, et al. *CNS Drugs.* 2013 Sep;27(9):679-702.

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

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