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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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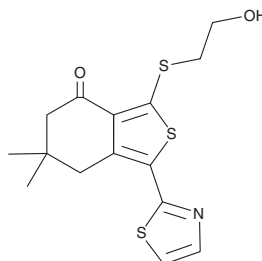
PRODUCT INFORMATION



TB 21007

Item No. 27674

CAS Registry No.: 207306-50-1
Formal Name: 6,7-dihydro-3-[(2-hydroxyethyl)thio]-6,6-dimethyl-1-(2-thiazolyl)benzo[c]thiophen-4(5H)-one
MF: C₁₅H₁₇NO₂S₃
FW: 339.5
Purity: ≥98%
Supplied as: A 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

TB 21007 is supplied as a solid. A stock solution may be made by dissolving the TB 21007 in the solvent of choice, which should be purged with an inert gas. TB 21007 is soluble in organic solvents such as ethanol and DMSO. The solubility of TB 21007 in these solvents is approximately 25 and 100 mM, respectively.

Description

TB 21007 is an inverse agonist of $\alpha_5\beta_3\gamma_2$ subunit-containing GABA_A receptors ($K_i = 1.6$ nM).¹ It selectively inhibits $\alpha_5\beta_3\gamma_2$ subunit-containing GABA_A receptors over α_{1-4} and α_6 subunit-containing GABA_A receptors that also contain β_3 and γ_2 subunits (K_i s = 20, 16, 20, 106, and 1,800 nM, respectively). TB 21007 reduces the latency to find the hidden platform in a matching-to-place variant of the Morris water maze, indicating enhanced spatial memory, in rats when administered at a dose of 0.3 mg/kg. It reduces paw tactile allodynia induced by reserpine (Item No. 16474) in a rat model of fibromyalgia-like pain when administered intrathecally at doses of 1.5, 15, and 150 nmol.²

References

1. Chambers, M.S., Atack, J.R., Broughton, H.B., *et al.* Identification of a novel, selective GABA_A α_5 receptor inverse agonist which enhances cognition. *J. Med. Chem.* **46(11)**, 2227-2240 (2003).
2. De la Luz-Cuellar, Y.E., Rodríguez-Palma, E.J., Franco-Enzástiga, Ú., *et al.* Blockade of spinal α_5 -GABA_A receptors differentially reduces reserpine-induced fibromyalgia-type pain in female rats. *Eur. J. Pharmacol.* **858**, 172443 (2019).

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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