

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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

PRODUCT INFORMATION



TB5

Item No. 22947

CAS Registry No.:	948841-07-4	Q	
Formal Name:	(2E)-1-(5-bromo-2-thienyl)-3-		\sim \sim
	[4-(dimethylamino)phenyl]-2-		
	propen-1-one	Br	
MF:	C ₁₅ H ₁₄ BrNOS		
FW:	336.3		
Purity:	≥98%		Ĩ
UV/Vis.:	λ _{max} : 436 nm		
Supplied as:	A crystalline solid		
Storage:	-20°C		
Stability:	≥2 years		
Information represents	the product specifications. Batch spe	ecific analytical results are provid	ed on each certificate of analvsis.

TB5 is supplied as a crystalline solid. A stock solution may be made by dissolving the TB5 in the solvent of choice. TB5 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of TB5 in ethanol is approximately 1 mg/ml and approximately 33 mg/ml in DMSO and DMF.

Description

Laboratory Procedures

TB5 is a potent and selective monoamine oxidase B (MAO-B) inhibitor with K, values of 110 and 1,450 nM for MAO-B and MAO-A, respectively.¹ It interacts with the catalytic site of human MAO-B in a competitive manner. In an enzyme assay, MAO-B activity increases from 37% to 97% following inhibitor washout, indicating TB5 binding is reversible. TB5 also demonstrates permeability in a parallel artificial membrane permeation assay (PAMPA), a model for the blood-brain barrier, and has minimal cytotoxicity (>84% cell viability) in HepG2 cells at a concentrations up to 25 μ M.

Reference

1. Mathew, B., Haridas, A., Uçar, G., et al. Synthesis, biochemistry, and computational studies of brominated thienyl chalcones: A new class of reversible MAO-B inhibitors. ChemMedChem 11(11), 1161-1171 (2016).

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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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