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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

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

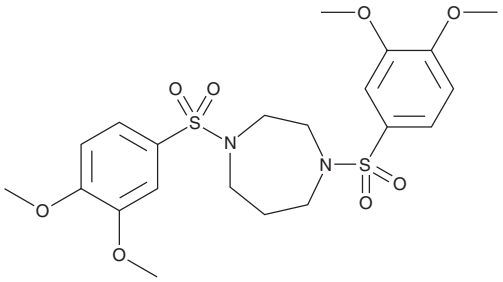
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

SB-756050

Item No. 27998

CAS Registry No.:	447410-57-3
Formal Name:	1,4-*bis*[(3,4-dimethoxyphenyl) sulfonyl]hexahydro-1H-1,4-diazepine
MF:	$C_{21}H_{28}N_2O_8S_2$
FW:	500.6
Purity:	≥95%
UV/Vis.:	λ_{max}: 249, 283 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

SB-756050 is supplied as a crystalline solid. A stock solution may be made by dissolving the SB-756050 in the solvent of choice, which should be purged with an inert gas. SB-756050 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of SB-756050 in these solvents is approximately 10 mg/ml.

SB-756050 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SB-756050 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. SB-756050 has a solubility of approximately 0.25 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

SB-756050 is an agonist of the bile acid G protein-coupled receptor TGR5 (EC_{50} = 1.3 µM for the human receptor).[1] It is selective for TGR5 over the farnesoid X receptor (FXR) and a panel of other receptors, channels, and transporters. SB-756050 (10-100 mg/kg) decreases fasting glucose levels and increases glucose disposal rate and insulin secretion in diabetic Goto Kakizaki rats.

Reference

1. Hodge, R.J., Lin, J., Vasist Johnson, L.S., *et al.* Safety, pharmacokinetics, and pharmacodynamic effects of a selective TGR5 agonist, SB-756050, in type 2 diabetes. *Clin. Pharmacol. Drug Dev.* **2(3),** 213-222 (2013).

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