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

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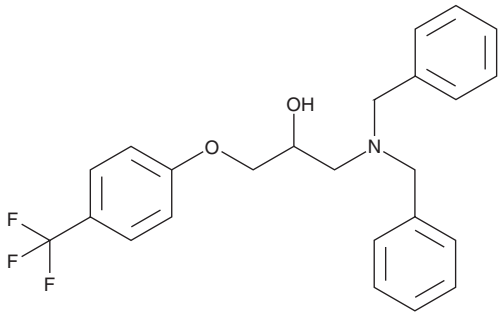
PRODUCT INFORMATION

BC-1618

Item No. 36136

CAS Registry No.:	2222094-18-8
Formal Name:	1-[*bis*(phenylmethyl)amino]-3-[4-(trifluoromethyl)phenoxy]-2-propanol
MF:	$C_{24}H_{24}F_3NO_2$
FW:	415.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 227 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BC-1618 is supplied as a solid. A stock solution may be made by dissolving the BC-1618 in the solvent of choice, which should be purged with an inert gas. BC-1618 is soluble in DMSO.

Description

BC-1618 is an inhibitor of F-box only protein 48 (FBXO48), an E3 ubiquitin ligase.[1] It is selective for FBXO48 over FBXO30 at 3 µM. BC-1618 (0.5-10 µM) increases the levels of phosphorylated AMP-activated protein kinase (pAMPK) and phosphorylated acetyl-CoA carboxylase (pACC), an AMPK downstream substrate, in HEK293T cells expressing human FBXO48. It induces mitochondrial fission in BEAS-2B cells and autophagy in HEK293A cells expressing GFP-tagged LC3. BC-1618 also inhibits LPS-induced activation of NF-κB in THP-1 cells in a reporter assay and cytokine release in isolated human peripheral blood mononuclear cells (PBMCs). It increases insulin sensitivity in a mouse model of high-fat diet-induced obesity when administered at a dose of 20 mg/kg.

Reference

1. Liu, Y., Jurczak, M.J., Lear, T.B., *et al.* A Fbxo48 inhibitor prevents pAMPKα degradation and ameliorates insulin resistance. *Nat. Chem. Biol.* **17(3),** 298-306 (2021).

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