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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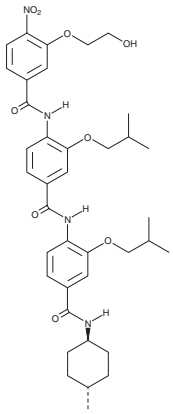
PRODUCT INFORMATION

ERX-41

Item No. 37726



CAS Registry No.:	2440087-54-5
Formal Name:	4-[[3-(2-hydroxyethoxy)-4-nitrobenzoyl]amino]-N-[4-[[(*trans*-4-methylcyclohexyl)amino]carbonyl]-2-(2-methylpropoxy)phenyl]-3-(2-methylpropoxy)-benzamide
MF:	$C_{38}H_{48}N_4O_9$
FW:	704.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 322 nm
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

ERX-41 is supplied as a solid. A stock solution may be made by dissolving the ERX-41 in the solvent of choice, which should be purged with an inert gas. ERX-41 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of ERX-41 in DMF is approximately 5 mg/ml. ERX-41 is slightly soluble in DMSO.

Description

ERX-41 is an inducer of endoplasmic reticulum (ER) stress.[1] It increases the thermal stability of lysosomal acid lipase when used at a concentration of 10 µM in the cellular thermal shift assay (CETSA) but does not inhibit lysosomal acid lipase enzymatic activity at 30 µM. ERX-41 (1 µM) increases ER tubule width, eukaryotic translation initiation factor 2α kinase 3 (EIF2AK3/PERK) and inositol-requiring enzyme 1α (IRE1α) phosphorylation, and splicing of the gene encoding X-box binding protein 1 (*XBP1*) in SUM149 triple-negative breast cancer (TNBC) cells. It reduces tumor volume and weight in several patient-derived xenograft (PDX) mouse models of TNBC when administered at a dose of 10 mg/kg.

Reference

1. Liu, X., Viswanadhapalli, S., Kumar, S., *et al.* Targeting LIPA independent of its lipase activity is a therapeutic strategy in solid tumors via induction of endoplasmic reticulum stress. *Nat. Cancer* **3(7)**, 866-884 (2022).

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