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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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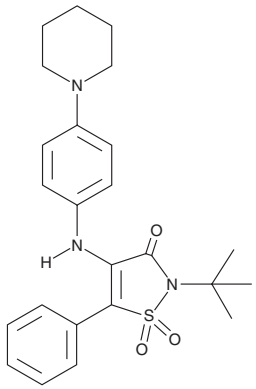
PRODUCT INFORMATION

AZ876

Item No. 34413



CAS Registry No.:	898800-26-5
Formal Name:	2-(1,1-dimethylethyl)-5-phenyl-4-[[4-(1-piperidinyl)phenyl]amino]-3(2H)-isothiazolone, 1,1-dioxide
MF:	$C_{24}H_{29}N_3O_3S$
FW:	439.6
Purity:	≥95%
UV/Vis.:	λ_{max}: 254 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

AZ876 is supplied as a solid. A stock solution may be made by dissolving the AZ876 in the solvent of choice, which should be purged with an inert gas. AZ876 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of AZ876 in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

AZ876 is a liver X receptor (LXR) agonist.[1,2] It activates LXRα and LXRβ in a transactivation assay in U2OS osteosarcoma cells (EC_{50}s= 6 and 73 nM, respectively).[1] AZ876 reduces phenylephrine-induced increases in cell size and protein synthesis in isolated neonatal rat ventricular myocytes.[2] It decreases plasma cholesterol and VLDL levels and increases plasma triglyceride and HDL levels, as well as decreases the number and size of aortic root lesions in mice fed a Western diet in an *APOE**3-Leiden transgenic mouse model of atherosclerosis when administered at a dose of 20 µmol/kg.[1]

References

1. van der Hoorn, J.W.A., Lindén, D., Lindahl, U., *et al.* Low dose of the liver X receptor agonist, AZ876, reduces atherosclerosis in APOE*3Leiden mice without affecting liver or plasma triglyceride levels. *Br. J. Pharmacol.* **162(7)**, 1553-1563 (2011).
2. Cannon, M.V., Yu, H., Candido, W.M., *et al.* The liver X receptor agonist AZ876 protects against pathological cardiac hypertrophy and fibrosis without lipogenic side effects. *Eur. J. Heart Fail.* **17(3)**, 273-282 (2015).

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