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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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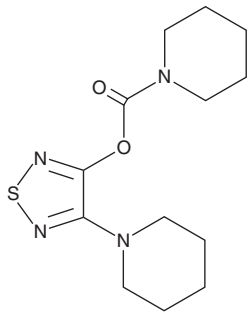
PRODUCT INFORMATION

Lalistat 2

Item No. 25347

CAS Registry No.:	1234569-09-5
Formal Name:	1-piperidinecarboxylic acid, 4-(1-piperidinyl)-1,2,5-thiadiazol-3-yl ester
MF:	$C_{13}H_{20}N_4O_2S$
FW:	296.4
Purity:	≥95%
UV/Vis.:	λ_{max}: 306 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

Lalistat 2 is supplied as a crystalline solid. A stock solution may be made by dissolving the lalistat 2 in the solvent of choice. Lalistat 2 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of lalistat 2 in these solvents is approximately 20 mg/ml.

Lalistat 2 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, lalistat 2 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Lalistat 2 has a solubility of approximately 0.16 mg/ml in a 1:5 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Lalistat 2 is an inhibitor of lysosomal acid lipase (LAL; IC_{50} = 152 nM using purified human LAL).[1] It blocks lipid clearance induced by the autophagy enhancers MSL and MSL-7 in HeLa cells preloaded with palmitic acid (Item No. 10006627) and oleic acid (Item No. 90260).[2]

References

1. Rosenbaum, A.I., Cosner, C.C., Mariani, C.J., *et al.* Thiadiazole carbamates: Potent inhibitors of lysosomal acid lipase and potential Niemann-Pick type C disease therapeutics. *J. Med. Chem.* **53(14)**, 5281-5289 (2010).
2. Lim, H., Lim, Y.-M., Kim, K.H., *et al.* A novel autophagy enhancer as a therapeutic agent against metabolic syndrome and diabetes. *Nat. Commun.* **9:1438** (2018).

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