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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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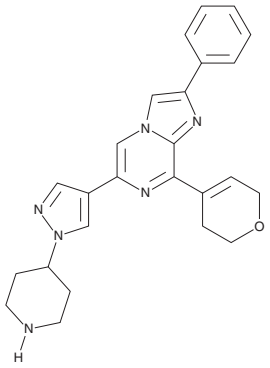
PRODUCT INFORMATION

YL-939

Item No. 38006



CAS Registry No.:	3023925-68-7
Formal Name:	8-(3,6-dihydro-2H-pyran-4-yl)-2-phenyl-6-[1-(4-piperidinyl)-1H-pyrazol-4-yl]-imidazo[1,2-a]pyrazine
MF:	$C_{25}H_{26}N_6O$
FW:	426.5
Purity:	≥98%
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

YL-939 is supplied as a solid. A stock solution may be made by dissolving the YL-939 in the solvent of choice, which should be purged with an inert gas. YL-939 is slightly soluble (0.1-1 mg/ml) in acetonitrile and DMSO.

YL-939 is slightly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

YL-939 is an inhibitor of ferroptosis.[1] It inhibits erastin-induced increases in ferrous iron levels and ferroptosis in ES-2 ovarian cancer cells when used at a concentration of 0.3 µM. YL-939 (10 µM) increases nuclear receptor coactivator 4 (NCOA4) and ferritin levels in ES-2 cells. *In vivo*, YL-939 (3 mg/kg) decreases serum alanine transaminase (Alt) and aspartate aminotransferase (Ast) levels, reduces liver and serum malondialdehyde (MDA) levels, and increases liver ferritin levels in a mouse model of acetaminophen-induced acute liver injury.

Reference

1. Yang, W., Mu, B., You, J., *et al*. Non-classical ferroptosis inhibition by a small molecule targeting PHB2. *Nat. Commun.* **13(1)**, 7473 (2022).

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