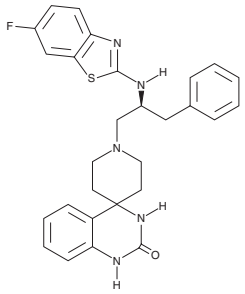
PRODUCT INFORMATION

NVS-ZP7-4

Item No. 33773

CAS Registry No.:	2349367-89-9
Formal Name:	1-[(2S)-2-[(6-fluoro-2-benzothiazolyl) amino]-3-phenylpropyl]-spiro[piperidine-4,4′(1′H)-quinazolin]-2′(3′H)-one
MF:	$C_{28}H_{28}FN_5OS$
FW:	501.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 227, 256 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

NVS-ZP7-4 is supplied as a solid. A stock solution may be made by dissolving the NVS-ZP7-4 in the solvent of choice, which should be purged with an inert gas. NVS-ZP7-4 is soluble in ethanol and DMSO.

Description

NVS-ZP7-4 is an inhibitor of the zinc transporter SLC39A7 (ZIP7).[1] It induces apoptosis in TALL-1 human T cell acute lymphoblastic leukemia cells, an effect that can be reduced by expression of the ZIP7 point mutant $ZIP7^{V430E}$. NVS-ZP7-4 (20 µM) increases endoplasmic reticulum, but not cytosolic, zinc levels in U2OS cells. It inhibits ferroptosis induced by erastin (Item No. 17754) in MDA-MB-231 and RCC4 cells when used at a concentration of 10 µM.[2]

References

1. Nolin, E., Gans, S., Llamas, L., *et al.* Discovery of a ZIP7 inhibitor from a Notch pathway screen. *Nat. Chem. Biol.* **15(2)**, 179-188 (2019).
2. Chen, P.-H., Wu, J., Xu, Y., *et al.* Zinc transporter ZIP7 is a novel determinant of ferroptosis. *Cell Death Dis.* **12(2)**, 198 (2021).

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