

Catalog #10-3969

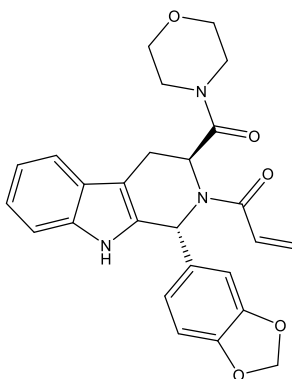
WX-02-23

CAS# 2929223-35-6

1-((1R,3S)-1-(benzo[d][1,3]dioxol-5-yl)-3-(morpholine-4-carbonyl)-1,3,4,9-tetrahydro-2H-pyrido[3,4-b]indol-2-yl)prop-2-en-1-one;

(1R,3S)-2-Acryloyl-1-(benzo[d][1,3]dioxol-5-yl)-N-morpholino-2,3,4,9-tetrahydro-1H-pyrido[3,4-b]indole-3-carboxamide

Lot # FBA10006



WX-02-23 is a spliceosome modulator. It binds to the spliceosome factor SF3B1 stabilizing a spliceosome state with enhanced binding to DDX42. WX-02-23 displayed anti-proliferative effects in Panc 05.04 and Panc 04.03 cells.¹ WX-02-23 also modulates the pioneer transcription factor FOXA1 via covalent binding to Cysteine 258 in a DNA-dependent manner (EC₅₀ = 2 μM FOXA1; 12 μM FOXA1-FKHD). It alters activity via relaxation of FOXA1s DNA-binding motif changing chromatin accessibility.²

- 1) Lazear *et al.* (2023), *Proteomic discovery of chemical probes that perturb protein complexes in human cells*; Mol. Cell **83** P1725
- 2) Won *et al.* (2024), *Redirecting the pioneering function of FOXA1 with covalent small molecules*; Mol. Cell **84** 4125

PHYSICAL DATA

Molecular Weight:	459.50
Molecular Formula:	C ₂₆ H ₂₅ N ₃ O ₅
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (at least 70 mg/mL)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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