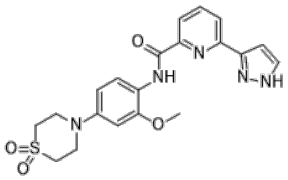
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	UR241-2
Cat. No.	:	PC-26786
CAS No.	:	2758288-13-8
Molecular Formula	:	$C_{20}H_{21}N_5O_4S$
Molecular Weight	:	427.48
Target	:	IRAK
Solubility	:	10 mM in DMSO



CAS: 2758288-13-8

Biological Activity

UR241-2 is a potent and selective **IRAK4** inhibitor with IC50 of 1.93 nM in HotSpot Kinase assays, inhibits NF-κβ nuclear translocation and blocks IL-1β–induced IRAK4 phosphorylation.
UR241-2 (5 and 15 nM, 4 h) suppresses IRAK4 phosphorylation induced by hIL-1β (10 ng, 45 min) in human HCH-1 EOC cells.
UR241-2 suppresses NF-κβ activation downstream of IL-1/TLR signaling.
UR241-2 UR241-2 (20-60 uM, 48 h) resulted in a dose-dependent reduction in viability across ES2, HCH1, SKOV-3, OVCAR-3, and OVCAR-8 cell lines.
UR241-2 at 20 mg/kg (intraperitoneal, once daily) suppressed tumor growth in SKOV-3 xenograft model without overt toxicity.
UR241-2 decreases tumor burden at the needle injury site and increases the number of MHCII expressing myeloid cells in the peritoneal cavity and tumor.
UR241-2 alters ECM and neutrophil-related gene expression in tumors.

References

Ho TC, et al. ***bioRxiv*** [Preprint]. 2024 Nov 11:2024.11.09.622796.

Ho TC, et al. ***Leukemia***. 2026 Feb;40(2):293-303.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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