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Data Sheet

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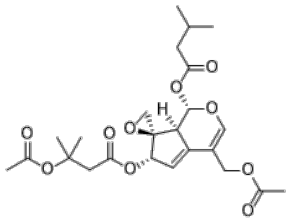
Product Name	:	Acevaltrate
Cat. No.	:	PC-24932
CAS No.	:	25161-41-5
Molecular Formula	:	$C_{24}H_{32}O_{10}$
Molecular Weight	:	480.51
Target	:	Ferroptosis
Solubility	:	10 mM in DMSO



Biological Activity

Acevaltrate is a novel ferroptosis inducer and dual inhibitor of PCBP1/2 and GPX4, also inhibits the Na+/K+-ATPase activity in the rat kidney and brain hemispheres with IC50s of 22.8 μM and 42.3 μM, respectively.
Acevaltrate promotes apoptosis and inhibits proliferation by suppressing HIF-1alpha accumulation in cancer cells.
Acevaltrate not only increases Fe2+ levels in colorectal cancer cells by targeting iron chaperones PCBP1/2 and reducing their expression but also disrupts the antioxidant system of colorectal cancer cells by targeting GPX4 and inhibiting its enzymatic activity, leading to its ubiquitin-mediated degradation.
Acevaltrate overcomes myeloma resistance to bortezomib via pyroptosis by promoting BAX translocalization to mitochondria.

References

Bettero GM, et al. Planta Med. 2011 Oct;77(15):1702-6.

Wang Y, et al. Eur J Pharmacol. 2025 Jun 5;996:177572.

Yu D, et al. Signal Transduct Target Ther. 2025 Jul 7;10(1):211.

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

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