

AKR1Cs-IN-1

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	AKR1Cs-IN-1 (Compound 29) is an effective and broad-spectrum inhibitor of the Aldo-Keto Reductase 1C family (AKR1C1-1C4). It achieves subtype inhibition by simultaneously binding to the SP2 and SP3 pockets, thereby blocking metabolic pathways related to drug resistance. In enzyme assays, AKR1Cs-IN-1 exhibits significant inhibitory activity with IC50 values of 0.09, 0.28, 0.05, and 0.51 μ M for AKR1C1, AKR1C2, AKR1C3, and AKR1C4, respectively. The compound shows excellent resensitizing effects in doxorubicin (DOX)-resistant breast cancer cell line MCF-7/ADR, effectively enhancing the cytotoxicity of DOX. AKR1Cs-IN-1 holds promise for research on breast cancer resistance.
Targets(IC50)	Reductase

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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