

Trastuzumab duocarmazine

Chemical Properties

CAS No. : 1642152-40-6
Formula:
Molecular Weight:
Storage: -20°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Trastuzumab duocarmazine ((vic)-Trastuzumab duocarmazine) is an ADC targeting HER2, cleaved by histone B within tumor cells for selective targeting, exhibiting antitumor activity and applicable in cancer research, particularly for uterine and ovarian sarcomas [1].
Targets(IC50)	Antibody-Drug Conjugates (ADCs)
In vitro	Trastuzumab duocarmazine (SYD985) displayed cytotoxic activity against both HER2-negative and HER2-positive cell lines at concentrations ranging from 0.0001 to 100 µg/mL over a 24-hour period. It was seven times more potent against HER2/NEU 3+ cell lines, with an IC50 value of 0.013 µg/mL, compared to T-DM1, which had an IC50 value of 0.096 µg/mL. Notably, in HER2/NEU 1+ cells, the potency of SYD985 was 54 times higher than that of T-DM1 [1].
In vivo	Trastuzumab duocarmazine (SYD985) administered intravenously at doses of 3 mg/kg or 10 mg/kg significantly inhibited tumor growth and prolonged survival in mice, demonstrating potent in vivo antitumor activity [1].

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