

Trastuzumab deruxtecan

Chemical Properties

CAS No. :	1826843-81-5
Formula:	
Molecular Weight:	145.42 kDa
Storage:	Store at low temperature -20°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Trastuzumab deruxtecan

Biological Description

Description	Trastuzumab deruxtecan (T-DXd) is an antibody-active molecule conjugate (ADC) with anticancer and antitumor activity, which is composed of a monoclonal antibody targeting human epidermal growth factor receptor 2 (HER2) coupled to a topoisomerase I inhibitor (DXd). Trastuzumab deruxtecan has an improved effect on the treatment of HER2-positive breast cancer and gastric cancer.
Targets(IC50)	EGFR,HER,Antibody-Drug Conjugates (ADCs)
In vitro	<p>METHODS: HER2-positive KPL-4 cells were treated with Trastuzumab deruxtecan (T-DXd) (1 pM-10 nM, 5 days) and cell viability was calculated.</p> <p>RESULTS: Trastuzumab deruxtecan can inhibit the growth of HER2-positive KPL-4 cells with an IC50 value of 109.7 pM. [2]</p> <p>METHODS: Trastuzumab deruxtecan (10 nM, 5 days) was used to treat co-cultured HER2-positive KPL-4 cells and HER2-negative MDA-MB-468 cells, and the number of viable cells was measured to determine whether it induced bystander killing.</p> <p>RESULTS: Trastuzumab deruxtecan killed both KPL-4 and MDA-MB-468 cells. [2]</p>
In vivo	<p>METHODS: Trastuzumab deruxtecan (T-DXd) (10 mg/kg, intravenous injection) was used to treat EMT6-hHER2 tumor-bearing mice, and the changes in tumors in the mice were observed.</p> <p>RESULTS: Trastuzumab deruxtecan significantly inhibited tumor growth in EMT6-hHER2 tumor-bearing mice 18 days after treatment. [1]</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0344 mL	0.0688 mL
5 mM	0.0014 mL	0.0069 mL	0.0138 mL
10 mM	0.0007 mL	0.0034 mL	0.0069 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481