

## Trastuzumab

## Chemical Properties

CAS No. : 180288-69-1

Formula:

Molecular Weight: 145.36 kDa

Storage: Store at low temperature  
-20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Trastuzumab

## Biological Description

Description	Trastuzumab is a humanized monoclonal antibody for patients with invasive breast cancers that overexpress HER2. Trastuzumab has been clinically used to treat HER2 Positive Metastatic Breast Cancer and HER2 Positive Gastric Cancer.
Targets(IC50)	EGFR,HER,ADC Antibody
In vitro	<p><b>METHODS:</b> Human breast cancer cells BT-474 were treated with Trastuzumab (0.01-10 µg/mL) for 72 h. Cell viability was determined by MTS Assay.</p> <p><b>RESULTS:</b> The antiproliferative effect of Trastuzumab was observed at concentrations as low as 0.5 µg/mL, with a stabilizing level of approximately 10 µg/mL.[1]</p> <p><b>METHODS:</b> CHO-K6, CHO-EGFR and CHO-HER3 cells were treated with Trastuzumab (0.1-10 µg/mL) for 5-60 min, and binding to HER receptors was detected by Immunofluorescence.</p> <p><b>RESULTS:</b> Trastuzumab binds only to HER2, but not to EGFR and HER3. [2]</p>
In vivo	<p><b>METHODS:</b> To test the in vivo antitumor activity, Trastuzumab (5 µg/g) was administered intraperitoneally once a week for seven doses to nude mice harboring human mammary carcinoma tumor JIMT-1.</p> <p><b>RESULTS:</b> Trastuzumab had a significant inhibitory effect on tumor growth on days 21-56. After stopping administration, tumors began to grow in two nude mice whose tumors were palpable earlier. [3]</p>

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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