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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Trastuzumab

Chemical Properties

CAS No. : 180288-69-1
 Formula:
 Molecular Weight:
 Appearance: no data available
 Storage: store at low temperature
 store at -20°C

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,ADC Antibody
In vitro	<p>METHODS: 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>RESULTS: 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>METHODS: 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>RESULTS: Trastuzumab binds only to HER2, but not to EGFR and HER3. [2]</p>
In vivo	<p>METHODS: 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>RESULTS: 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>

Reference

Zazo S, et al. Generation, characterization, and maintenance of trastuzumab-resistant HER2+ breast cancer cell lines. Am J Cancer Res. 2016 Nov 1;6(11):2661-2678.

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