

Trastuzumab ; 曲妥珠单抗

产品编号 : MB2753

质量标准 : >95%,蛋白原液

包装规格 : 1MG/5MG

产品形式 :

基本信息

分子式	C6470H10012N1726O2013S42
分子量	145.53KD
CAS NO	180288-69-1
储存条件	-70 ± 15°C for long-term storage, 2-8°C for short-term storage, away from light

简介: Trastuzumab 是一种人源化单克隆抗体, 其以高亲和力与 HER2 选择性结合。Trastuzumab 已被批准用于治疗 HER2 阳性转移性乳腺癌和 HER2 阳性胃癌。

产品形式: 蛋白原液。每种装于冻存管中, 单抗质量为标示数量 1MG 或者 5MG, 体积根据其浓度不同略有不同。

质量标准:

Non-reduced CE-SDS:.....>90%;

SEC-HPLC:.....>95%;

Bacterial Endotoxins Test:<3EU/ml

Residual Proteins of HostCell:<100 ng/mg

Exogenous residual DNA:<100pg/mg

Residual Protein A:<100 ng/mg

Biological Activity:.....80% to 125% of standard

储存条件: -70 ± 15°C for long-term storage, 2-8°C for short-term storage, away from light.

使用建议:

meilunbio 提供的产品为蛋白原液形式。每种装于冻存管中, 单抗质量为标示数量 1MG 或者 5MG, 体积根据其浓度不同略有不同。

使用前可以根据自己实验需求进行稀释, 溶剂建议用去离子无菌水(meilunbio 货号 MA0028, 去离子无菌水(细胞培养用水))或者 PBS (meilunbio 货号 MA0015PBS(1X),细胞培养级)。

不建议使用含有防腐成分的稀释液进行稀释, 会增加细胞或者动物毒性。

稀释前, 计算加入多少体积溶剂, 请参考购买批次质检单上蛋白浓度, 或者询问我司,

举例，质检单显示该批次单抗蛋白原液蛋白浓度为 50mg/ml

对应 5MG 包装的蛋白原液体积为 5mg (质量) /50mg/ml(浓度)=0.1ML,

实验需求蛋白浓度为 10mg/ml, 需要稀释倍数为 50/10=5, 则需要加入 0.4ML,即 400ul PBS 或者无菌去离子水即可。

若给药量为固定质量值, 比如单次给药 0.5MG, 对应蛋白原液给药体积为 10ul, 建议稀释后, 提高给药体积降低误差, 因为注射器或者移液器吸头残留会影响实验效果。

稀释后的蛋白溶液, 可于 2-8 度冷藏避光保存不超过 2 周, 不建议长期储存。

避免反复冻融, 每次冻融蛋白活性会降低约 5%左右。

生物活性 (仅来自于公开文献, 不保证其有效性)

描述	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..
靶点	ErbB2
体外	Treatment of HER2-overexpressing breast cancer cell lines with Trastuzumab results in induction of p27KIP1 and the Rb-related protein, p130, which in turn significantly reduces the number of cells undergoing S-phase. A number of other phenotypic changes are observed in vitro as a consequence of Trastuzumab binding to HER2-overexpressing cells. Interaction of Trastuzumab with the human immune system via its human immunoglobulin G1 Fc domain may potentiate its antitumor activities. in vitro studies demonstrate that Trastuzumab is very effective in mediating antibody-dependent cell-mediated cytotoxicity against HER2-overexpressing tumor targets. Trastuzumab consists of two antigen-specific sites that bind to the juxtamembrane portion of the extracellular domain of the HER2 receptor and that prevent the activation of its intracellular tyrosine kinase. Trastuzumab recruits immune effector cells that are responsible for antibody-dependent cytotoxicity. The presence of Trastuzumab IgG significantly increases killing of all breast cancer cell lines. The ADCC activity of PBMCs evoked by Trastuzumab is equally strong against Trastuzumab-sensitive (SKBR-3) or Trastuzumab-resistant (JIMT-1) breast cancer cells, with dose-dependent cell death reaching 50–60% killing at an effector/target ratio of 60:1
体内	Trastuzumab treatment of mouse xenograft models results in marked suppression of tumor growth. When given in combination with standard cytotoxic chemotherapeutic agents, Trastuzumab treatment generally results in statistically superior antitumor efficacy compared with either agent given alone. Trastuzumab causes a significant growth inhibition of the outgrowth of macroscopic JIMT-1 xenograft tumors in both nude and SCID mice.

美仑相关产品推荐(更多相关靶点抑制剂请详询官网或客服)

产品编号	品名.	Target
MB2806	aflibercept	VEGFR
MB2786	Alemtuzumab	CD52
MB2787	Alirocumab	PCSK9
MB2789	Avelumab	PDL-1
MB2790	Atezolizumab	PDL-1

MB2791	Bevacizumab	VEGF
MB2792	Cetuximab	EGFR
MB2803	Daratumumab	CD38
MB2794	Denosumab	RANK Ligand
MB2023	Eculizumab	补体蛋白(C5)
MB2795	Etanercept	TNF
MB2797	Evolocumab	PCSK9
MB2773	Infliximab	TNF- α
MB2769	Ipilimumab	CTLA-4
MB2772	Matuzumab	EGFR
MB2766	Mepolizumab	IL-5
MB2767	Nivolumab	PD-1
MB2774	Obinutuzumab	CD20
MB2776	Ofatumumab	CD20
MB2777	Omalizumab	IgE
MB2781	Panitumumab	EGFR
MB2761	Pembrolizumab	PD-1
MB2762	Pertuzumab	HER2
MB2763	Ranibizumab	VEGFR
MB2938	Ramucirumab	VEGFR
MB2749	Rituximab	CD20
MB2757	Secukinumab	IL-17
MB2751	Tocilizumab/Atlizumab	IL-6 receptor
MB2784	Adalimumab	TNF- α
MB2758	Ustekinumab	IL-12

用途及描述: 仅供科研, 严禁用于人体(For R&D Only)