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Ipilimumab

Cat. No.:	HY-P9901
CAS No.:	477202-00-9
Molecular Weight:	145313.36
Target:	CTLA-4
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Ipilimumab is a fully human monoclonal antibody IgG1κ that blocks the inhibitory receptor cytotoxic T lymphocyte antigen 4 (CTLA-4) on T cells. Ipilimumab can be used in unresectable or metastatic melanoma (MM) studies ^[1] .
In Vitro	Ipilimumab inhibits CTLA-4, allowing the T cell immune response to be reactivated against tumor cells. Ipilimumab can promote antitumor activity as a single agent or in combination with cytokines, chemotherapy, or vaccines ^[1] . Ipilimumab (0.5 or 50 µg/ mL, 6 days) alone can enhance IL-2 production and in combination with nivolumab stimulate higher IL-2 release in peripheral blood mononuclear cells (PBMC). And the combination of ipilimumab and nivolumab treatment synergistically enhances effector and memory T-cell responses ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ipilimumab (i.v., 3 or 10 mg/kg, once a week for 4 weeks) combination with nivolumab (10 or 50 mg/kg) results in gastrointestinal inflammation in crab-eating monkeys and is associated with reduced albumin, increases globulin and increases neutrophil and eosinophil counts and mononuclear inflammation of the large intestine. Recurrent diarrhoea is demonstrated in the high-dose group, which also has visible degranulation of glandular blast cells in the pancreas ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Biomed Inform. 2023 May 15;104383.
- Patent. US20200261591A1

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REFERENCES

[1]. Mark J Selby, et al. Preclinical Development of Ipilimumab and Nivolumab Combination Immunotherapy: Mouse Tumor Models, In Vitro Functional Studies, and Cynomolgus Macaque Toxicology. PLoS One. 2016 Sep 9;11(9):e0161779.

[2]. Mowla S, et al. The monoclonal antibody to cytotoxic T lymphocyte antigen 4, ipilimumab (MDX-010), a novel treatment strategy in cancer management. Expert Opin

Caution: Product has not been fully validated for medical applications. For research use only.

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