Basiliximab

Cat. No.:	HY-108852
CAS No.:	179045-86-4
Target:	Interleukin Related
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Basiliximab (CHI 621) is a recombinant chimeric murine/human IgG1 monoclonal anti-interleukin-2 receptor antibody. Basiliximab can be used for the research of renal transplantation[1].
IC_{50} & Target	Interleukin-2 receptor[1]
In Vitro	Basiliximab specifically inhibits T lymphocyte proliferation by binding to the IL-2Rα[1]. Basiliximab binds only to activated lymphocytes and macrophages/monocytes[3]. Basiliximab does not affect resting T lymphocytes that do not express IL-2Rα[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Basiliximab (CHI 621) (0.07 mg/rat; i.v.; once) decreases total placental natural killer cells in reduced uterine perfusion pressure (RUPP) rats[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Timed-pregnant Sprague Dawley (SD) rats, reduced uterine perfusion pressure (RUPP) rat model of placental ischemia[2]
Dosage:	0.07 mg/rat
Administration:	IV infusion, once
Result:	Decreased total placental natural killer cells. Had no effect to lower MAP or improve pup weight and placental weight.

REFERENCES

[1]. McKeage K, et al. Basiliximab: a review of its use as induction therapy in renal transplantation. BioDrugs. 2010 Feb 1;24(1):55-76.

[2]. Cunningham M W, et al. The Role of Interleukin-2 (IL-2) in Natural Killer Cell (NK) Activation and Hypertension in a Preclinical Rat Model of Preeclampsia. The FASEB Journal, 2018, 32: 911.1-911.1.

[3]. Chapman TM, et al. Basiliximab: a review of its use as induction therapy in renal transplantation. Drugs. 2003;63(24):2803-35.

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

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