

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	<p>Basiliximab specifically inhibits T lymphocyte proliferation by binding to the IL-2Rα^[1].</p> <p>Basiliximab binds only to activated lymphocytes and macrophages/monocytes^[3].</p> <p>Basiliximab does not affect resting T lymphocytes that do not express IL-2Rα^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		
In Vivo	<p>Basiliximab (CHI 621) (0.07 mg/rat; i.v.; once) decreases total placental natural killer cells in reduced uterine perfusion pressure (RUPP) rats^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		
	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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