Rafivirumab

Cat. No.:	HY-P99811
CAS No.:	944548-37-2
Target:	RABV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Rafivirumab (CR57) is an anti-rabies virus monoclonal antibody for the prophylaxis of rabies. Rafivirumab has neutralizing potency against a broad spectrum of RABV variants. Rafivirumab can be used for research of cocktails[1][2][3].
In Vitro	Rafivirumab shows neutralization effect against series of RABV isolates[2]. Rafivirumab binds to antigenic site I of the RABV glycoprotein[3]. Rafivirumab fully neutralizs the wild type ERA_{439} and N336D R346K with EC_{50} ranging between 3 and 5 pg/mL[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Rafivirumab (3-12 μg/kg,i.m.) together with CR4098 increases survival in syrian hamsters infected with bat rabies viruses[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Syrian hamsters infected with bat rabies viruses[2].
Dosage:	6, 12, 16, 18 or 24 μg/kg of CL184 (mixture of Rafivirumab and CR4098 in 1:1 protein ratio)
Administration:	i.m.
Result:	Increased survival rate.

REFERENCES

[1]. Kramer RA, et al. The human antibody repertoire specific for rabies virus glycoprotein as selected from immune libraries. Eur J Immunol. 2005 Jul;35(7):2131-45.

[2]. Franka R, et al. In Vivo Efficacy of a Cocktail of Human Monoclonal Antibodies (CL184) Against Diverse North American Bat Rabies Virus Variants. Trop Med Infect Dis. 2017 Sep 20;2(3):48.

[3]. Ejemel M, et al. A cocktail of human monoclonal antibodies broadly neutralizes North American rabies virus variants as a promising candidate for rabies post-exposure prophylaxis. Sci Rep. 2022 Jun 7;12(1):9403.

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

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