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Product Data Sheet

Emactuzumab

Cat. No.:	HY-P99245
CAS No.:	1448221-67-7
Target:	c-Fms
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Description	Emactuzumab(RG 7155) is a activation. Emactuzumab ha can be used for the research	a specific monoclonal antibody that inhibits colonystimulating factor 1 receptor (CSF1R) as high affinity for CSF-1R with K _i value of 0.2 nM to blocks CSF-1R dimerization. Emactuzumab n of several diseases, such as diffuse-type tenosynovial giant cell tumour (dt-GCT) ^{[1][2]} .	
IC ₅₀ & Target	IC50: 0.2 nM (CSF-1R) ^[2]		
In Vitro	Emactuzumab (RG 7155) bir dimerization ^[2] . RG7155 (0-10 μg/mL, 7 days) inducing cell death ^[2] . RG7155 (30 μg/mL, 6 days) in MCE has not independently Cell Viability Assay ^[2]	nds to human and cynomolgus CSF-1R with high affinity ($K_d = 0.2 \text{ nM}$) to blocks CSF-1R) potently inhibited the viability of CSF-1-differentiated macrophages with an IC ₅₀ of 0.3 nM by nduces cell death of in vitro-differentiated human M2-like macrophages ^[2] . confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	CSF-1 and/or GM-CSF Macrophages	
	Concentration:	0-10 μg/mL	
	Incubation Time:	7 days	
	Result:	Resulted cell death of CSF-1-differentiated macrophages.	
In Vivo	Emactuzumab(RG 7155) (i.v.; 0.101010030 and 100 mg/kg; once) increases CSF-1 concentration in nonhuman primates' peripheral blood ^[2] . RG7155 (i.v.; 0, 30, and 100 mg/kg; once weekly; for 2 weeks) depletes CSF-1R ⁺ CD163 ⁺ macrophages in vivo ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	cynomolgus monkeys Macaca fascicularis ^[2]	
	Dosage:	0.1, 1, 10, 30 and 100 mg/kg (male cynomolgus monkeys) 0, 30, and 100 mg/kg (male and female cynomolgus)	
	Administration:	i.v., once (male cynomolgus monkeys)	

	i.v., once weekly, for 2 weeks(male and female cynomolgus)
Result:	Increased CSF-1 concentration in serum.
	Efficiently reduced CSF-1R and CD68 ⁺ 163 ⁺ macrophages in the liver (Kupffer cells) and
	colon of cynomologus monkeys.

REFERENCES

[1]. Philippe A Cassier, et al. CSF1R inhibition with emactuzumab in locally advanced diffuse-type tenosynovial giant cell tumours of the soft tissue: a dose-escalation and dose-expansion phase 1 study. Lancet Oncol. 2015 Aug;16(8):949-56.

[2]. Carola H Ries, et al. Targeting tumor-associated macrophages with anti-CSF-1R antibody reveals a strategy for cancer therapy. Cancer Cell. 2014 Jun 16;25(6):846-59.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA