Proteins

Product Data Sheet



Mapatumumab

Cat. No.: HY-P99265 CAS No.: 658052-09-6 Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Mapatumumab (HGS-ETR1) is a fully human $IgG1$ agonistic monoclonal antibody that targets tumor necrosis factor-related apoptosis-inducing $Iigand$ receptor 1 (TRAIL-R1). Mapatumumab can be used for the research of cancer $Iige1$.	
In Vitro	Mapatumumab (0.01-100 μ g/mL; 4 h) shows no growth inhibition to Pediatric Preclinical Testing Program (PPTP) cell lines ^[1] . Mapatumumab (1-100 ng/mL; 24 h) shows significant potentiation of cytotoxicity and synergy when combined with (epirubicin) EPI for bladder cancer cells ^[2] . Mapatumumab (100 ng/mL; 12 h) induces significant cell apoptosis of T24, 253J and J82 cells with the combination of EPI (1 μ g/mL) ^[2] . Mapatumumab (100 ng/mL; 6-24 h) significantly activates caspase-8, -9 and -3 with the combination of EPI (1 μ g/mL) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Mapatumumab (10 mg/kg; i.p. for three times) controls tumor growth when combined with irradiation ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Colo205-xenograft-bearing NMRI (nu/nu) nude mice ^[3]
	Dosage:	10 mg/kg
	Administration:	Intraperitoneal injection; 10 mg/kg; on days 1, 4, and 8
	Result:	Showed no significant differences when used alone, but when combined with irradiation

REFERENCES

- [1]. Smith MA, et al. Initial testing (stage 1) of mapatumumab (HGS-ETR1) by the pediatric preclinical testing program. Pediatr Blood Cancer. 2010 Feb;54(2):307-10.
- [2]. Ahmed SM, et al. Synergistic induction of apoptosis by mapatumumab and anthracyclines in human bladder cancer cells. Oncol Rep. 2015 Feb;33(2):566-72.
- [3]. Marini P, et al. Combination of the pro-apoptotic TRAIL-receptor antibody mapatumumab with ionizing radiation strongly increases long-term tumor control under ambient and hypoxic conditions. Int J Radiat Oncol Biol Phys. 2009 Sep 1;75(1):198-202.

Page 1 of 2 www.MedChemExpress.com $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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

Page 2 of 2 www.MedChemExpress.com