**Proteins** 



## **Product** Data Sheet

## **Pasotuxizumab**

Cat. No.: HY-P99802 CAS No.: 1442657-12-6

Target: CD3

Pathway: Immunology/Inflammation

Result:

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

## **BIOLOGICAL ACTIVITY**

Description	Pasotuxizumab (BAY 2010112) is a PSMA and CD3 bispecific T-cell engager (BiTE). Pasotuxizumab binds to CD3 and PSMA with $K_D$ s of 9.4 nM and 47.0 nM for human CD3 and PSMA. Pasotuxizumab can be used for research of metastatic castration-resistant prostate cancer (mCRPC) <sup>[1][2]</sup> .					
IC <sub>50</sub> & Target	K <sub>D</sub> s: 9.4 nM and 16.3 nM for human and cynomolgus monkey CD3. K <sub>D</sub> s: 47.0 nM and 212.6 nM for human and cynomolgus monkey PSMA.					
In Vitro	Pasotuxizumab (0-100 ng/mL approximately, 48 h) leads to activation of CD4+ and CD8+ T cell populations, with EC <sub>50</sub> s of 3.4-6.7 ng/mL for human cocultures, and 13.7-21.2 ng/mL for cynomolgus monkey cell cocultures <sup>[2]</sup> .  Pasotuxizumab (0-100 ng/mL approximately, 48 h) increases release of interferon-γ, TNF-α, IL-2 and IL-10 in T cells <sup>[2]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
In Vivo	Pasotuxizumab (0-100 ng/mL approximately, 48 h) leads to activation of CD4+ and CD8+ T cell populations, with EC $_{50}$ s of 3.4-6.7 ng/mL for human cocultures, and 13.7-21.2 ng/mL for cynomolgus monkey cell cocultures <sup>[2]</sup> . Pasotuxizumab (0-100 ng/mL approximately, 48 h) increases release of interferon- $\gamma$ , TNF- $\alpha$ , IL-2 and IL-10 in T cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
	Animal Model:	PC-3-huPSMA mouse xenograft model <sup>[2]</sup>				
	Dosage:	0.005-5 mg/kg				
	Administration:	i.v., once daily				
	Result:	Inhibited tumor growth by 86% (0.005 mg/kg/d) and 99% (5 mg/kg/d).				
	Animal Model:	BALB/c mice (PK Assay) <sup>[2]</sup>				
	Dosage:	0.1, 0.3, and 1 mg/kg				
	Administration:	i.v. bolus administration or s.c.				

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Pharmacokinetic profile of Rafivirumab.

		CL <sub>matrix</sub> (L/h/kg)	•	F (%)
i.v. (0.3)	0.93	0.32	9.7	100
s.c. (0.3)	0.17		11	18

## **REFERENCES**

[1]. Horst-Dieter Hummel, et al. Phase 1 study of pasotuxizumab (BAY 2010112), a PSMA-targeting Bispecific T cell Engager (BiTE) immunotherapy for metastatic castration-resistant prostate cancer (mCRPC). Journal of Clinical Oncology 2019 37:15\_suppl, 5034-5034.

[2]. Friedrich M, et al. Regression of human prostate cancer xenografts in mice by AMG 212/BAY2010112, a novel PSMA/CD3-Bispecific BiTE antibody cross-reactive with non-human primate antigens. Mol Cancer Ther. 2012 Dec;11(12):2664-73.

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

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