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Amatuximab

Cat. No.:	HY-P99006
CAS No.:	931402-35-6
Target:	Mesothelin
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Amatuximab (MORAb-009) is a chimeric, humanized IgG1/k MAb that targets the cell surface mesothelin (MSLN). Mesothelin is a glycosylphosphatidyl inositol (GPI)-anchored membrane glycoprotein, which is present in a restricted set of normal adult tissues such as the mesothelium ^{[1][2]} .
In Vitro	Amatuximab (MORAb-009) is a mouse-human chimeric monoclonal antibody with a selective affinity for MSLN. In vitro, amatuximab elicits antibody-dependent cellular cytotoxicity (ADCC) against mesothelin expressing tumor cell lines and inhibits heterotypic cell adhesion of mesothelin-positive tumor cells to CA125-expressing tumor cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In tumor xenograft studies, combination treatment with amatuximab plus chemotherapy led to a greater reduction in the growth of mesothelin-expressing tumors than either Amatuximab or chemotherapy alone ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hassan R, et al. Phase II clinical trial of amatuximab, a chimeric antimesothelin antibody with pemetrexed and cisplatin in advanced unresectable pleural mesothelioma. Clin Cancer Res. 2014;20(23):5927-5936.

[2]. Baldo P, et al. Amatuximab and novel agents targeting mesothelin for solid tumors. Onco Targets Ther. 2017;10:5337-5353. Published 2017 Nov 8.

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

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