



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Nimotuzumab

Cat. No.:	HY-P9968
CAS No.:	780758-10-3
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Nimotuzumab is a humanized IgG1 monoclonal antibody targeting EGFR with a $K_D$ of 0.21 nM. Nimotuzumab is directed against the extracellular domain of the EGFR blocking the binding to its ligands. Nimotuzumab, a strong antitumor agent, is cytolytic on target tumors by its capacity to cause antibody dependent cell mediated cytotoxicity (ADCC) and complement dependent cytotoxicity (CDC) <sup>[1][2]</sup> .
<b>In Vitro</b>	Nimotuzumab (10 µg/mL; 24 hours) induces significant downregulation of CD16 on NK cells <sup>[1]</sup> . ?Nimotuzumab (10 µg/mL; 48 hours) induces the upregulation of PD-L1 molecule on DCs when co-cultured with the NK: DC: HNSCC cells <sup>[1]</sup> . ?The intrinsic properties of Nimotuzumab requires bivalent binding (i.e., binding with both antibody arms to two targets simultaneously) for stable attachment to cellular surface, which leads to Nimotuzumab selectively binding to cells that express moderate to high EGFR levels <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Zaima Mazorra, et al. Nimotuzumab Induces NK Cell Activation, Cytotoxicity, Dendritic Cell Maturation and Expansion of EGFR-Specific T Cells in Head and Neck Cancer Patients. *Front Pharmacol.* 2017 Jun 19;8:382.

[2]. Melarkode S Ramakrishnan, et al. Nimotuzumab, a promising therapeutic monoclonal for treatment of tumors of epithelial origin. *MAbs.* Jan-Feb 2009;1(1):41-8.

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

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