

## Nimotuzumab

## Chemical Properties

CAS No.:	828933-51-3
Formula:	N/A
Molecular Weight:	N/A
Appearance:	N/A
Storage:	store at -20°C

## Biological Description

Description	Nimotuzumab is a humanized therapeutic monoclonal antibody against epidermal growth factor receptor EGFR).
Targets(IC <sub>50</sub> )	EGFR: None
In vitro	Cells in the logarithmic-growth phase were cultured in 96-well plates at a density of 1×10 <sup>5</sup> cells/well in triplicate. Following incubation for 24 h, nimotuzumab was added at concentrations of 2,000, 1,000, 500, 250, 125 or 62.5 µg/ml. MTT was added following incubation at 37°C for 24, 48 or 72 h, followed by the addition of 150 µl dimethyl sulfoxide into each well.
In vivo	Mice were intravenously injected with IRDye-800CW-nimotuzumab and fluorescent images were taken of mice bearing A-431,DLD-1,MDA-MB-435 xenografts. Images shown were taken at 1, 6, 24, 72, 168 (7 days), and 504 hours post injection (hpi) (21 days), except MDA-MB-435, which was not imaged at 21 days after injection. IRDye800CW-control IgG was injected into mice bearing DLD-1 and A-431 xenografts. Fluorescent images shown were taken after 1, 6, 24, and 72 hpi. The fluorescent scale is shown on the right. All images were normalized to the antibody labeling ratio. X indicates xenograft, L indicates liver, and B indicates bladder. Normalized fluorescent signal comparing IRDye800CW-nimotuzumab and the control IgG in A-431 and DLD-1 xenografts at 1, 6, 24, 168, and 504 hpi.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Li J. Roovers, et al. Time profile of nimotuzumab for enhancing radiosensitivity of the Eca109 cell line. *Oncol Lett.* 2019 Mar;17(3):2763-2769.
2. Bernhard W, et al. Near infrared fluorescence imaging of EGFR expression in vivo using IRDye800CW-nimotuzumab. *Oncotarget.* 2017 Dec 21;9(5):6213-6227.

Inhibitors · Natural Compounds · Compound Libraries

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