

Product Data Sheet

Product Name: Panitumumab

Cat. No.: GC66405

Chemical Properties

Cas. No. 339177-26-3

Formula M.Wt 147kDa

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

Panitumumab

Background

Panitumumab (ABX-EGF) is a fully human IgG2 anti-**EGFR** monoclonal antibody with anti-tumor activity. Panitumumab inhibits tumor cell proliferation, survival and angiogenesis. Panitumumab can be used in the research of cancers, such as colon cancer^{[1][2][4]}.

Panitumumab (2 nM-2 μM, 3 h) inhibits ligand-dependent autophosphorylation in EGFR-expressing NCI-H1975 cells, NCI-H1650 cells and CHO cells^[3].

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

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Panitumumab (0-200 µg/mL, 48 h) inhibits the proliferation of DLD-1 cells^[4].

Panitumumab (80 µg/mL, 24 h) increase beclin-1 (a marker of autophagy) levels in Caco-2 cells and DLD-1 cells^[4].

Western Blot Analysis^[3]

Cell Line: EGFR-expressing NCI-H1975 cells, NCI-H1650 cells and CHO cells

Concentration: 2, 20, 200, 2000 nM

Incubation Time: 3 h

Result: Inhibited ligand-induced autophosphorylation of EGFR.

Panitumumab (25, 100, or 500 µg/mouse, i.p., twice a week) inhibits tumor growth in NCI-H1975 and NCI-H1650 xenografts, compared with control ($P < 0.0003$)^[1].

Animal Model: NCI-H1975 and NCI-H1650 xenografts^[3]

Dosage: 25, 100, or 500 µg/mouse

Administration: Intraperitoneal injection (i.p.), twice a week

Result: Inhibited ligand-induced EGFR phosphorylation, tumor growth, and markers of proliferation. Decreased Ki-67 and phospho- mitogen-activated protein kinase (pMAPK) staining in both xenografts.

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