

GC1118

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature
Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	GC1118 (GC-1118A) is a fully human anti-EGFR monoclonal antibody with a KD value of 0.16 nM against EGFR. It potently inhibits signal transduction triggered by both high-affinity and low-affinity EGFR ligands. GC1118 exhibits strong antiproliferative activity in both KRAS wild-type and KRAS mutant cells. It can penetrate the blood-brain barrier (BBB) and blood-tumor barrier (BTB) to reach tumor sites and demonstrates excellent antitumor effects in various mouse xenograft models. GC1118 is applicable for cancer studies, including colorectal cancer.
Targets(IC50)	EGFR,Akt,PERK
In vitro	GC1118 (GC-1118A) exhibits significant antiproliferative activity in both KRAS wild-type and KRAS mutant cells when used at 1 µg/mL for 24-120 hours. At a concentration of 100 µM over 6 days, GC1118 inhibits the growth of primary tumor cells G096 and G022. Additionally, GC1118 at concentrations ranging from 0.1-50 µg/mL for 2 hours can block both high-affinity and low-affinity ligand-induced EGFR signaling in HCT8 cells. Furthermore, the compound inhibits cell proliferation induced by both affinity types of ligands within 3 days in HCT8 cells at concentrations from 0.005-100 µg/mL.
In vivo	GC1118 (GC-1118A) administered intraperitoneally at 1 mg/kg twice weekly for five weeks significantly inhibits tumor growth in AGS xenograft mouse models. At 50 mg/kg, given intraperitoneally twice weekly, GC1118 demonstrates remarkable anti-tumor activity in patient-derived GBM xenograft models. Furthermore, GC1118, at a dose of 1 mg/mouse administered intraperitoneally twice weekly for five weeks, significantly suppresses tumor growth in HCT8, Lovo, HCT15, LS174T, LS513, and SW48 xenograft mouse models. When administered at 1 mg/mouse intraperitoneally twice weekly for 52 days, GC1118 exhibits moderate anti-tumor effects in patient-derived CRC-024T xenograft mouse models.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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