

Product Data Sheet

Product Name: Tovetumab

Cat. No.: GC66385

Chemical Properties

Cas. No. 1243266-04-7

Formula M.Wt

Solubility Storage Store at -20°C

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

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

Structure

Tovetumab

Background

Tovetumab (MEDI-575) is an anti-**PDGFR α** monoclonal antibody that selectively blocks the PDGFR α signal transduction. Tovetumab can be used in the research of glioblastoma and non-small cell lung cancer (NSCLC)^{[1][2]}.

Tovetumab (10-100 nM, 1-2 h) binds to PDGFR α on H1703 cells (determined by Alexa647-labeled tovetumab)^[1].

Tovetumab (0.001-10 nM, 10 min) inhibits ligand-induced phosphorylation of human PDGFR α in MG-

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

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63 cells^[2].

Tovetumab (0.001-100 nM, 72 h) inhibits Ligand-induced proliferation of cancer-associated fibroblasts (CAFs) ^[2].

Tovetumab (0.6-60 mg/kg, i.v.) blocks the PDGFR α -mediated elimination of PDGF-AA, leading to an increase in circulating PDGF-AA level in Cynomolgus monkeys^[1].

Tovetumab (10 mg/kg, i.p., twice a week) inhibits tumor growth in U118 glioma xenografts ^[2].

Animal Model: Cynomolgus monkey^[1]

Dosage: 0.6, 6.0, and 60 mg/kg

Administration: Intravenous injection (i.v.)

Result: Induced > 100- fold increases in circulating concentrations of PDGF-AA.

Animal Model: U118 glioma xenografts (CB17 SCID)^[2]

Dosage: 10 mg/kg

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

Result: Produced 101% inhibition of tumor growth.

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