
Product Data Sheet

Product Name: Tilvestamab

Cat. No.: GC68342

Chemical Properties

Cas. No. 2226775-26-2

Formula M.Wt

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

Background

Tilvestamab (BGB149) is a humanized anti-**AXL** antibody that blocks **AXL**-mediated cell signaling. Tilvestamab significantly inhibits **Gas6**-induced **AXL** activation in 786-0-Luc RCC cells and inhibits downstream **AKT** phosphorylation. Tilvestamab can be used in cancer research, particularly in **AXL** overexpressing renal cell carcinomas^[1].

Tilvestamab (250 μM; 1 h) inhibits AXL phosphorylation in 786-0 cells^[1].

Cell Viability Assay^[1]

Cell Line: 786-0-Luc cells (Gas6- induced; Gas6 is a well characterized AXL ligand)

Concentration: 250 μM

Incubation Time: 1 h (pre-treat)

Result: Drastically inhibited Gas6- induced AXL phosphorylation and decreased the level of pAKT.

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

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Tilvestamab (30 mg/kg; i.p.; twice a week) suppresses tumor growth by inhibiting AXL in orthotopic RCC model^[1].

Animal Model: Female BALB/c athymic nude mice (8-week-old; orthotopic RCC model)^[1].

Dosage: 30 mg/kg

Administration: Intraperitoneal injection; twice a week

Result: Significantly inhibited RCC growth down to about 1/3 of the volume.

[1]. Chen TJ, et al. AXL targeting by a specific small molecule or monoclonal antibody inhibits renal cell carcinoma progression in an orthotopic mice model. *Physiol Rep.* 2021 Dec;9(23):e15140.

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