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## Product Data Sheet

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Product Name: Penpulimab

Cat. No.: GC66394

### Chemical Properties

Cas. No. 2350298-92-7

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

Penpulimab is an IgG1 backbone anti-**PD-1** monoclonal antibody with antitumor activities<sup>[1]</sup>.

Penpulimab demonstrates better stability and a lower level of host-cell protein residue compared with IgG4 backbone anti-PD-1 antibodies<sup>[1]</sup>.

Penpulimab does not mediate complement-dependent cytotoxicity (CDC) or antibody-dependent cell-mediated cytotoxicity (ADCC) and induces no remarkable IL-6 and IL-8 release by activated macrophages<sup>[1]</sup>.

Penpulimab exhibits slower binding off-rate for human PD-1 than Nivolumab and Pembrolizumab <sup>[1]</sup>.

Penpulimab potentiates T cell activation via PD-1/PD-L1 blockade<sup>[1]</sup>.

Penpulimab (5 mg/kg; i.p.; twice a week, 3weeks) inhibits tumor growth in mice<sup>[2]</sup>.

Animal Model: MC38-hPD-L1 tumor-bearing B-hPD-1 humanized mouse model<sup>[2]</sup>

Dosage: 5 mg/kg

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Administration: IP, twice a week, 3weeks

Result: Showed moderate inhibition of tumor growth (tumor volume: 58.4% of control group). Treatment combined with anlotinib (1 mg/kg, every day, p.o) significantly decreased tumor volume to 36.5% of control group.

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