
Product Data Sheet

Product Name: Datopotamab deruxtecan

Cat. No.: GC73079

Chemical Properties

Cas. No. 2238831-60-0

Formula M.Wt 149000 (average)

Solubility Storage -80°C, protect from light, avoid freeze-thaw cycles.

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

Datopotamab deruxtecan (DS-1062; Dato-DXd) is a trophoblast cell surface antigen 2 (TROP2)-directed antibody-drug conjugate (ADC). Datopotamab deruxtecan has a potent antitumor activity.

Datopotamab deruxtecan (Dato-DXd; 100 µg/mL) binds specifically to TROP2 and was internalized into tumor cells followed by intracellular trafficking to lysosome and Deruxtecan release, which induced DNA damage and apoptosis in TROP2-expressing tumor cells in vitro[1].

Datopotamab deruxtecan (Dato-DXd; 6 mg/kg) shows potent antitumor activity with tumor regression in several TROP2-expressing xenograft tumors including NSCLC patient-derived xenograft (PDX) models. Safety profiles of Datopotamab deruxtecan in rats and cynomolgus monkeys are acceptable[1].

References:

[1]. Daisuke Okajima, et al. Datopotamab Deruxtecan, a Novel TROP2-directed Antibody-drug Conjugate, Demonstrates Potent Antitumor Activity by Efficient Drug Delivery to Tumor Cells. Mol Cancer Ther. 2021 Aug 19.

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

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