

Product Data Sheet

Product Name: ZW-191
Cat. No.: GC81529

Chemical Properties

Cas. No.

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

ZW-191

Background

ZW-191 is an antibody-drug conjugate (ADC) targeting folate receptor α (FR α). ZW-191 consists of ZW-191 Antibody as the antibody component and MC-GGFG-AM-(10Me-11F-Camptothecin) as the

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

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linker-payload component. ZW-191 possesses excellent tumor sphere penetration, cellular internalization and payload delivery capabilities, and can release a topoisomerase 1 inhibitor inside tumor cells to inhibit tumor cell activity. ZW-191 exerts a potent bystander effect on both antigen-positive and antigen-negative cells. ZW-191 exhibits prominent activity in xenograft models of cell lines with different FR α expression levels. ZW-191 can be used in studies related to ovarian cancer, non-small cell lung cancer, endometrial cancer and triple-negative breast cancer [1] [2].

In Vivo, ZW-191 exerts potent antitumor activity in cell line-derived xenograft and patient-derived xenograft models covering different FR α expression levels. ZW-191 maintains favorable tolerability in rodents after two administrations at a dose of 200 mg/kg. ZW-191 exhibits satisfactory safety profiles in non-human primates when given twice at a dose of 30 mg/kg. ZW-191 displays optimal pharmacokinetic characteristics in rodents and non-human primates during in vivo assessments^[1].

In Vitro, ZW-191 shows detectable apparent binding affinity in FR α -expressing cells. ZW-191 mediates superior cellular internalization and payload delivery compared with other FR α -targeted antibodies applied in different ADCs^[1]. ZW191 demonstrates strong FR α binding, superior tumor spheroid penetration, cellular internalization, and cytotoxic activity in FR α -expressing cancer cells^[1][2].

References:

- [1]. Lawn S, et al. Abstract 2641: ZW191, a novel FR α -targeting antibody drug conjugate bearing a topoisomerase 1 inhibitor payload. Cancer Research. 2023;83(7_Supplement):2641.
- [2]. Lawn S, et al. Abstract 1862: ZW191 - a FR α -targeting antibody drug conjugate with strong preclinical activity across multiple FR α -expressing indications. Cancer Research. 2024;84(6_Supplement):1862.

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