

Indatuximab ELISA Kit

SKU: GXEL00155 | Assay: Quantitative ELISA (Colorimetric)

The Indatuximab ELISA Kit (SKU: GXEL00155) is a high-sensitivity quantitative ELISA for the quantitative measurement of Indatuximab in Plasma, Serum. The assay covers a detection range of 0.31-5 µg/mL with a sensitivity of 0.156 µg/ml and is read colorimetrically at 450 nm.

Background: Indatuximab ravtansine (BT062) is an antibody-drug conjugate (ADC) based on a murine/human chimeric form of B-B4 (CD138-specific antibody), which is covalently conjugated to the maytansinoid drug DM4 via a disulfide bond-based linker. Maytansinoids are structural analogs of the cytotoxic agent maytansine, which has been evaluated in phase I and phase II clinical trials. They exhibit anti-mitotic activity by inducing metaphase arrest of dividing cells, causing cell death. Upon internalization of indatuximab ravtansine by target tumor cells, lysosomal processing of the disulfide linker generates a lysine metabolite which is reduced and S-methylated producing the lipophilic and cytotoxic metabolite, S-methyl-DM4. The mechanism of action of indatuximab ravtansine resembles that of trastuzumab emtansine, an antibody-drug conjugate indicated for HER2-positive metastatic breast cancer which uses the HER2-targeting properties of trastuzumab to deliver the cytotoxic DM1 within the cell by means of a stable linker. The intracellular drug delivery to target tumor cells can improve the therapeutic index of the cytotoxic drug and minimize exposure of normal tissue. Indatuximab ravtansine has previously been shown in vivo in multiple myeloma mouse xenograft models to significantly inhibit tumor growth and prolong host survival without any toxicity signals. Based on these preclinical results, a phase I clinical trial of indatuximab ravtansine demonstrated the first signs of clinical activity in patients with relapsed or refractory multiple myeloma without any toxicity signals. Furthermore, preliminary data from a phase I/IIa study in relapsed or refractory multiple myeloma indicated that indatuximab ravtansine is well tolerated even in a multiple-dose schedule and provided further evidence of clinical activity. Indatuximab ravtansine is being investigated as part of a treatment for multiple myeloma.

Specifications

Product Name	Indatuximab ELISA Kit
SKU	GXEL00155
Accession	P18827
Alternative Names	BT-062, nBT062-DM4, Indatuximab ravtansine(1238517-16-2)
Assay Type	Quantitative
Detection Method	Colorimetric
Sensitivity	0.156 µg/ml
Detection Range	0.31-5 µg/mL
Recovery	80-120%
Sample Types	Plasma, Serum
Storage	2-8°C. See Storage & Stability.
Note	For Research Use Only. Not for diagnostic procedures.

Storage & Stability

The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 10% prior to the expiration date under appropriate storage condition. Store at 2-8°C on receipt; avoid repeated freeze-thaw cycles.

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