

Product Data Sheet

Product Name: INCA033989

Cat. No.: GC79472

Chemical Properties

Cas. No.

Formula

M.Wt 143.9

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

INCA033989 is a fully human IgG1 monoclonal antibody targeting mutCALR (K D = 1.75 nM for mutCALR del52; K D = 6.78 nM for mutCALR ins5). INCA033989 antagonizes mutCALR-driven

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

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signaling and proliferation. INCA033989 selectively inhibits pSTAT3/pSTAT5. INCA033989 prevents thrombocytosis and reduces the expansion of mutCALR-positive cells. INCA033989 is useful for research on myeloproliferative neoplasms [1].

In Vivo, INCA033989 (10 mg/kg; i.p.; single dose) reduces Ba/F3-TPOR/CALRdel52 cell burden in NOD scid gamma (NSG) mice model of Myeloproliferative neoplasm (with a plasma concentration of 50 µg/mL)^[1]. INCA033989 (3-10 mg/kg; i.p.; twice weekly; 10 weeks) prevents thrombocytosis, reduces mutCALR-positive cell expansion, and normalizes bone marrow histology in C57BL/6 (CD45.2+; lethally irradiated recipients), CD45.2+ floxed homozygous CALRdel52 KI, CD45.2+ wt transgenic (UBI-GFP/BL6) mice model of Myeloproliferative neoplasm [1].

In Vitro, INCA033989 binds to recombinant mutCALRdel52 and mutCALRins5 proteins with nanomolar affinities (KD = 1.75 nM for mutCALRdel52; 6.78 nM for mutCALRins5), showing slight preferential binding to mutCALRdel52^[1]. INCA033989 (72 h) selectively inhibits cytokine-independent proliferation of Ba/F3-TPOR/CALRdel52 and UT-7-TPOR/CALRdel52 cells (IC₅₀ = 0.1 µg/mL; IC₉₀ = 1 µg/mL)^[1]. INCA033989 (4 h) broadly inhibits mutCALR-driven oncogenic signaling (including pSTAT5) in Ba/F3-TPOR/CALRdel52 cells^[1]. INCA033989 (4 h) does not induce complement-dependent cytotoxicity in TF-1-TPOR/CALRdel52 cells^[1].

References:

[1]. Reis ES, et al. Selective targeting of mutated calreticulin by the monoclonal antibody INCA033989 inhibits oncogenic function of MPN. Blood. 2024;144(22):2336-2348.

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