

Product Data Sheet

Product Name: ZN-c5 hydrochloride

Cat. No.: GC81358

Chemical Properties

Cas. No. 2641839-07-6

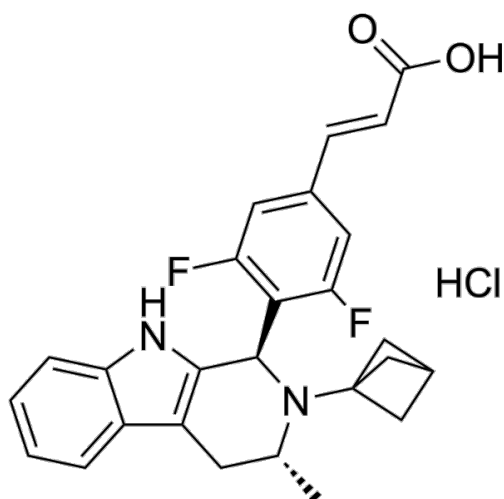
Formula $C_{26}H_{25}ClF_2N_2O_2$ M.Wt 470.94

Solubility DMSO: 4.17 mg/mL (8.85 mM; Need ultrasonic) 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

ZN-c5 hydrochloride is a selective and orally active estrogen receptor degrader. ZN-c5 hydrochloride exhibits high potency in the cellular assay (MCF-7, $IC_{50} = 0.3$ nM) and binds with high affinity to ER α and ER β ($IC_{50} = 0.4$ nM and 0.8 nM, respectively). ZN-c5 hydrochloride inhibits tumor growth in MCF-7 mouse xenograft model and WHIM20 xenograft model. ZN-c5 hydrochloride can be used for

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

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the study of breast cancer [1].

In Vivo, ZN-c5 (1-40 mg/kg, p.o., once daily, 28 days) hydrochloride shows significant tumor growth inhibition in MCF-7 mouse xenograft model^[1]. ZN-c5 (40 mg/kg, p.o., once daily, 90 days) hydrochloride induces tumor growth inhibition in the WHIM20 xenograft model (an ESR1 mutant model (Y537S))^[1].

In Vitro, ZN-c5 (100 nM, 24 h) hydrochloride induces ER α degradation in breast cancer cell lines (MCF-7, ZR-75-1, CAMA-1, HCC1500 and HCC1428 cells)^[1].

References:

[1]. Hegde SG, et al. Discovery of ZN-c5, an Orally Bioavailable Selective Estrogen Receptor Degradar (SERD) with Improved Pharmacokinetics. J Med Chem. 2025 Jul 24;68(14):14740-14755.

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