LY 254155

Cat. No.: HY-14523

CAS No.: 135503-67-2

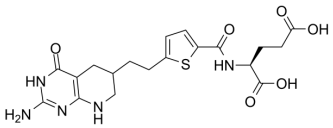
Molecular Formula: $C_{19}H_{23}N_5O_6S$

Molecular Weight: 449.48

Target: Antifolate

Pathway: Cell Cycle/DNA Damage

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LY 254155, an antifolate, inhibits hGARFT and binds to mFBP with K_is of 2.1±0.2 and 1.7±0.1 nM, respectively.
IC_{50} & Target	Ki: 2.1±0.2 (hGARFT), 1.7± 0.1 nM (mFBP)[1]
In Vitro	LY 254155 inhibits recombinant human monofunctional glycinamide ribonucleotide formyltransferase (hGARFT) and binds to membrane folate-binding protein (mFBP) [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	LY 254155 is active against a broad panel of murine and human xenograft solid tumors. LY 254155 (5, 10, 20, and 40 mg/kg) inhibits murine C3H carcinoma growth in C3H mice, with % inhibition of tumor growth is 49%, 71%, 90%, and 94%, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration [1]	Mice[1] C3H mice are used. LY 254155 is dosed on days 1, 4, 7, and 10 (4 treatment days). Cumulative dose is calculated using the formula (daily dose×number of treatment days). Doses are administered in mg of LY 254155 per kg of mouse weight (5, 10, 20, and 40 mg/kg), and 10 mice are inoculated at each dosing level, including a no-compound control group. % inhibition of tumor growth is calculated[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Habeck LL, et al. A novel class of monoglutamated antifolates exhibits tight-binding inhibition of humanglycinamide ribonucleotide formyltransferase and potent activity against solid tumors. Cancer Res. 1994 Feb 15;54(4):1021-6.

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

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