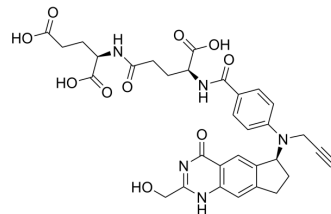


Idetrexed

Cat. No.:	HY-10822
CAS No.:	501332-69-0
Molecular Formula:	C ₃₂ H ₃₃ N ₅ O ₁₀
Molecular Weight:	647.63
Target:	Thymidylate Synthase
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Idetrexed is a thymidylate synthase inhibitor specifically transported into alpha-folate receptor (alpha-FR)-overexpressing tumors. BGC 945 inhibited thymidylate synthase with a K_i of 1.2 nmol/L^{[1][2]}.

REFERENCES

- [1]. Gibbs DD, Theti DS, Wood N, Green M, Raynaud F, Valenti M, Forster MD, Mitchell F, Bavetsias V, Henderson E, Jackman AL. BGC 945, a novel tumor-selective thymidylate synthase inhibitor targeted to alpha-folate receptor-overexpressing tumors. *Cancer Res.* 2005 Dec 15;65(24):11721-8.
- [2]. Tochowicz A, Dalziel S, Eidam O, O'Connell JD 3rd, Griner S, Finer-Moore JS, Stroud RM. Development and binding mode assessment of N-[4-[2-propyn-1-yl]-(6S)-4,6,7,8-tetrahydro-2-(hydroxymethyl)-4-oxo-3H-cyclopenta[g]quinazolin-6-yl]amino]benzoyl]-L-γ-glutamyl-D-glutamic acid (BGC 945), a novel thymidylate synthase inhibitor that targets tumor cells. *J Med Chem.* 2013 Jul 11;56(13):5446-55.

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

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