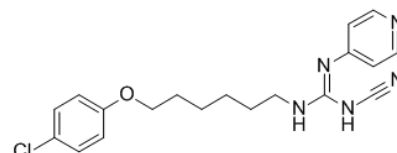


Product Name : GMX1778
Cat. No. : PC-42257
CAS No. : 200484-11-3
Molecular Formula : C₁₉H₂₂ClN₅O
Molecular Weight : 371.8639
Target : NAMPT
Solubility : DMSO: ≥ 39 mg/mL



Biological Activity

GMX1778 (CHS-828) is a potent, specific, competitive **NAMPT** inhibitor with K_d of 120 nM, enzyme IC₅₀ of <25 nM. GMX1778 blocks the NAD⁺ biosynthesis and results in tumor cell death, furthermore, phosphoribosylated by NAMPT, increases its cellular retention.

GMX1778 also induces ROS in cancer cells, but not in normal cells.

The prodrug of GMX1778, GMX1777, shows antitumor activity in vivo combined with nicotinic acid.

References

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Hjarnaa PJ, et al. *Cancer Res*. 1999 Nov 15;59(22):5751-7.

Cerna D, et al. *J Biol Chem*. 2012 Jun 22;287(26):22408-17.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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