

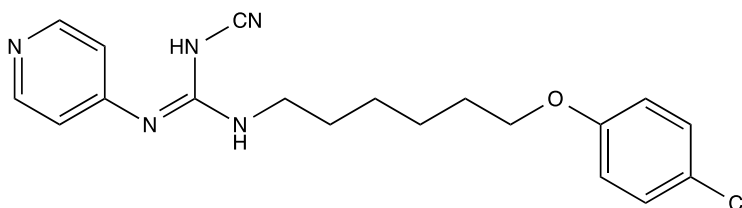
Catalog #10-1390

CHS-828

200484-11-3

N-[6-(4-Chlorophenoxy)hexyl]-N'-cyano-N''-4-pyridinyl-guanidine; GMX-1778

Lot # X104606



A potent and selective inhibitor of nicotinamide phosphoribosyltransferase (NAMPT), the rate-limiting enzyme in the biosynthesis of NAD, which may be used to deplete cells of NAD.¹ Displays potent cytotoxic effects in tumor cells.^{2,3} Displays antitumor activity *in vivo*.³ Increases ROS levels in cancer cells but not in normal cells.⁴

- 1) Olesen *et al.* (2008), *Anticancer agent CHS-828 inhibits cellular synthesis of NAD*; *Biochem.Biophys.Res.Commun.* **376** 799
- 2) Hassan *et al.* (2006), *CHS 828 kill tumor cells by inhibiting the nuclear factor-kappaB translocation but unlikely through down-regulation of proteasome*; *Anticancer Res.* **26** 4431
- 3) Hjarnaa *et al.* (1999), *CHS 828, a novel pyridyl cyanoguanidine with potent antitumor activity in vitro and in vivo*; *Cancer Res.* **59** 5751
- 4) Cerna *et al.* (2012) *Inhibition of nicotinamide phosphoribosyltransferase (NAMPT) activity by small molecule GMX1778 regulates reactive oxygen species (ROS)-mediated cytotoxicity in a p53- and nicotinic acid phosphoribosyltransferase 1 (NAPRT1)-dependent manner*; *J.Biol.Chem.* **287** 22408

PHYSICAL DATA

Molecular Weight:	371.86
Molecular Formula:	C ₁₉ H ₂₂ CIN ₅ O
Purity:	>98% (TLC)
	NMR: (Conforms)
Solubility:	DMSO (25 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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