

Product Name: CHS 828

Catalog No.: 6753

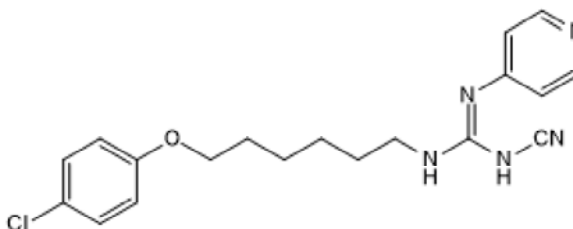
Batch No.: 2

CAS Number: 200484-11-3

IUPAC Name: *N*-[6-(4-Chlorophenoxy)hexyl]-*N'*-cyano-*N''*-4-pyridinylguanidine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₂ClN₅O.
Batch Molecular Weight: 371.86
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.37	5.96	18.83
Found	61.14	5.94	19

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 200484-11-3

IUPAC Name: N-[6-(4-Chlorophenoxy)hexyl]-N'-cyano-N''-4-pyridinylguanidine

Description:

CHS 828 is a NAMPT inhibitor. Decreases cellular level of NAD⁺. Selectively increases intracellular ROS levels in cancer cells but not normal cells. Active in vivo and cytotoxic.

Physical and Chemical Properties:

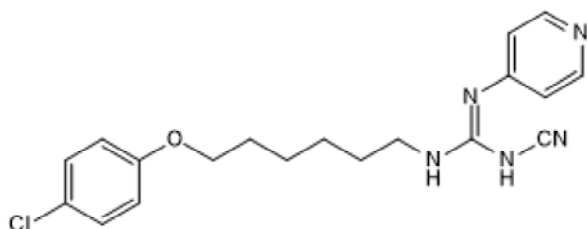
Batch Molecular Formula: C₁₉H₂₂CIN₅O.

Batch Molecular Weight: 371.86

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Karpov et al (2018) Nicotinamide phosphoribosyltransferase inhibitor as a novel payload for antibody-drug conjugates. *ACS Med.Chem.Lett.* **9** 838. PMID: 30128077.

Olesen et al (2008) Anticancer agent CHS-828 inhibits cellular synthesis of NAD. *Biochem.Biophys.Res.Comm.* **367** 799. PMID: 18201551.

Hjarnaa et al (1999) CHS 828, a novel pyridyl cyanoguanidine with potent antitumor activity *in vitro* and *in vivo*. *Cancer Res.* **59** 5751. PMID: 10582695.

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