

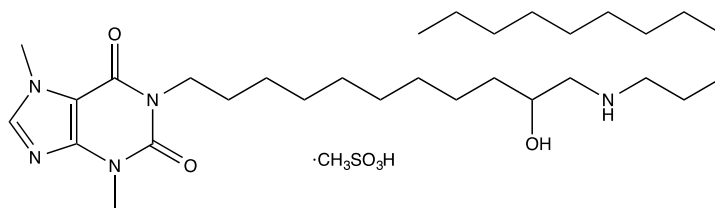
**Catalog # 10-4560**

**CT-2584**

CAS# 166981-13-1 (free base)

1-(11-Dodecylamino-10-hydroxyundecyl)-3,7-dimethylxanthine methane sulfonate

Lot # FBA7179



CT-2584 is a cytotoxic agent that alters phospholipid biosynthesis via inhibition of CTP:choline-phosphate cytidyltransferase causing an increase in phosphatidylinositol will decreasing levels of phosphatidylcholine.<sup>1</sup> The altered phospholipid metabolism caused by CT-2584 results in a loss of lamellar structure and membrane integrity (especially in mitochondria and endoplasmic reticulum). CT-2584 was active against a wide range of tumor cell lines including multi-drug resistant lines.<sup>2</sup>

- 1) Finney *et al.*, (2000), *Pharmacological Inhibition of Phosphatidylcholine Biosynthesis is Associated with Induction of Phosphatidylinositol Accumulation and Cytolysis of Neoplastic Cell lines*; Cancer Res. **60** 5204
- 2) Cheeseman *et al.* (2000), *Phase I and pharmacologic study of CT-2584 HMS, a modulator of phosphatidic acid, in adult patients with solid tumors*; Br.J.Cancer **83** 1599

**PHYSICAL DATA**

Molecular Weight:	629.90
Molecular Formula:	C <sub>30</sub> H <sub>55</sub> N <sub>5</sub> O <sub>3</sub> ·CH <sub>3</sub> SO <sub>3</sub> H
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO and ethanol
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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