4-Demethylaminosancycline (CMT-3)

Catalog number: B-0802

Molecular Formula: C_{19}H_{17}NO_{7}
MW: 371.10
CAS: 15866-90-7

Alternate Names: 6-Demethyl-6-deoxy-4-dedimethylaminotetracycline, COL-3, Incyclinide, NSC-683551

Solubility: DMF, DMSO. Limited solubility in water.

Storage and Handling: Store dry at –20°C. Stock solutions should be stored frozen (–20 °C or below).

Background: Chemically modified tetracyclines show activity in mammalian cell pathways and diseases related to cancer, inflammation, and neurodegenerative pathways. CMT-3 acts as matrix metalloproteinase (MT-MMP) inhibitor. It has been studied in disorders of collagen destruction, excessive TNF activity, excessive nitric oxide activity, excessive IL-1 activity, excessive activity of elastase, bone loss, protein degradation, muscle wasting, collagen glycosylation, phospholipase A2 activity. In addition, it has been investigated for the treatment of aneurysms, ulcerations, periodontal disease, diabetes, scleroderma, progeria, cancer, and diseases of bone marrow function and thrombocytopenia.

References:

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the MSDS on request. This product is manufactured and shipped only in small quantities, intended for research and development in a laboratory utilizing prudent procedures for handling chemicals of unknown toxicity, under the supervision of persons technically qualified to evaluate potential risks and authorized to enforce appropriate health and safety measures. As with all research chemicals, precautions should be taken to avoid unnecessary exposures or risks.

Warranty and Disclaimer: Echelon warrants the product conforms to the specifications stated herein. In the event of nonconformity, Echelon will replace products or refund purchase price, at its sole option, and Echelon shall not be responsible for any other loss or damage, whether known or foreseeable to Echelon. No other warranties apply, express or implied, including but not limited to warranty of fitness for any purpose or implied warranty of merchantability. Purchaser is solely responsible for all consequences of its use of the product and Echelon assumes no responsibility therefore, including success of purchaser’s research and development, or health or safety of any uses of the product.