Creative Enzymes®

4-Methylumbelliferone sodium salt

Cat. No. CSUB-0670

Lot. No. (See product label)

Introduction

Description	4-Methylumbelliferone sodium salt is a selective inhibitor of Hyaluronan (HA) synthesis. HA is a major component in the metastasis of malignant tumors. Studies indicate that in the presence of 4-Methylumbelliferone sodium salt cell proliferation, migration, and growth are inhibited, while apoptosis is induced. In addition, the motility and cell growth was inhibited in fibroblast cell line NIH/3T3 (sc-2210). 4-Methylumbelliferone sodium salt is thought to function as an inhibitor via the depletion of UDP-glucuronic acid, the common substrate for HA synthesis. It is also believed that 4-Methylumbelliferone sodium salt can suppress the expression of HA-synthase.
Applications	β-Galactosidase activity in solution can be revealed by the fluorogenic substrate 4-methylumbelliferone. It is also a selective inhibitor of Hyaluronan (HA) synthesis and
Synonyms	Cantabiline sodium; 7-Hydroxy-4-methylcoumarin

Product Information

Form	Solid
CAS No.	5980-33-6
Molecular Formula	C10H7O3•Na
Molecular Weight	198.15
Purity	>98%
Solubility	Soluble in water
Substrates	Mannosidase

Storage and Shipping Information

Storage	Store at room temperature