

## 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**  $\beta$ -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

|                          |   |
|--------------------------|---|
| <b>Form</b>              | Solid   |
| <b>CAS No.</b>           | 5980-33-6   |
| <b>Molecular Formula</b> | C <sub>10</sub> H <sub>7</sub> O <sub>3</sub> •Na |
| <b>Molecular Weight</b>  | 198.15  |
| <b>Purity</b>            | >98%  |
| <b>Solubility</b>        | Soluble in water                                  |
| <b>Substrates</b>        | Mannosidase                                       |

### Storage and Shipping Information

**Storage** Store at room temperature