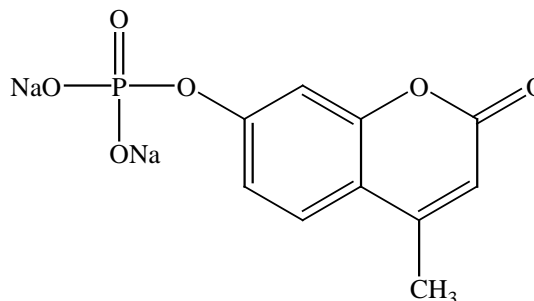


## PRODUCT AND SAFETY DATA SHEET

**PRODUCT NAME:** MUP, Na (4-methylumbelliferyl phosphate, disodium salt)**CATALOG #:** 10010**MOLECULAR INFORMATION:** C<sub>10</sub>H<sub>7</sub>Na<sub>2</sub>O<sub>6</sub>P·3H<sub>2</sub>O  
MW: 354.2  
[22919-26-2]**PROPERTIES:****Color & Form** White solid  
**Purity** ≥ 99% by TLC  
**Solubility** Soluble in water or DMSO**STORAGE AND HANDLING:**

Store desiccated at ≤ 4 °C. Protect from light.

**APPLICATION:**Fluorogenic phosphatase substrate that releases the blue fluorescent 4-methyl-7-hydroxycoumarin ( $\lambda_{\text{ex}}/\lambda_{\text{em}} = 360/450$  nm). Fluorescence detection of phosphatase activity can be highly sensitive. MUP free acid and its salt (See MUP/Na, **10010**) are the most widely used fluorogenic substrates for alkaline phosphatase detection.Ref: *J. Immuno. Meth.* **150**, 23(1992); *Anal. Chem.* **65**, 1147(1993); *Anal. Biochem.* **205**, 1(1992)**TOXICITY:**

Unknown.

**FIRST AID:**

Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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