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PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME:

MUP, Free Acid (4-methylumbelliferyl phosphate, free acid)

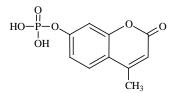
CATALOG #:

 MOLECULAR
 C₁₀H₉O₆P

 INFORMATION:
 MW: 256

 [3368-04-5]

10009



PROPERTIES: Color & Form Purity Solubility Absorption/Emission Extinction Coefficient	White solid ≥ 99% (impurity < 100ppm) Soluble in water or DMSO 319nm/383nm 15,000
STORAGE AND HANDLING:	Store desiccated at \leq 4 °C. Protect from light.
APPLICATION:	Fluorogenic phosphotase substrate that releases the blue fluorescent 4-methyl-7- hydroxycoumarin (λ_{ex} \ λ_{em} = 360\450 nm). Fluorescence detection of phosphotase activity can be highly sensitive. MUP free acid and its salt (See MUP/Na, 10010) are the most widely used fluorogenic substrates for alkaline phosphotase detection. Ref: <i>J. Immuno. Meth.</i> 150 , 23(1992); <i>Anal. Chem.</i> 65 , 1147(1993); <i>Anal. Biochem.</i> 205 , 1(1992)
ΤΟΧΙΟΙΤΥ:	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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