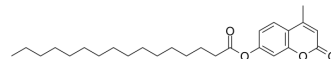


4-Methylumbelliferyl palmitate

Cat. No.:	HY-W010947
CAS No.:	17695-48-6
Molecular Formula:	C ₂₆ H ₃₈ O ₄
Molecular Weight:	414.59
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

4-Methylumbelliferyl palmitate is an excellent fluorophore for measuring acid lipase in human leukocytes. Acidity and solvent have important influence on its fluorescence. 4-Methylumbelliferyl palmitate exists mainly as neutral molecular form which can be produced strong fluorescence at 445 nm in near neutral aqueous solutions, and exist mainly as anion form which can be produced stronger fluorescence at 445 nm in weak alkaline solutions^{[1][2]}.

REFERENCES

- [1]. Zhi H, et al. Fluorescent properties of hymecromone and fluorimetric analysis of hymecromone in compound dantong capsule. *Journal of Spectroscopy*, 2013, 2013.
- [2]. Dairaku T, et al. Nishimura M, Endo M, Ohashi T, Eto Y. A practical fluorometric assay method to measure lysosomal acid lipase activity in dried blood spots for the screening of cholesteryl ester storage disease and Wolman disease. *Mol Genet Metab*. 2014 Feb;111(2):193-6.

Caution: Product has not been fully validated for medical applications. For research use only.

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