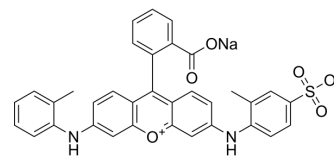


Violamine R

Cat. No.:	HY-D1545
CAS No.:	6252-76-2
Molecular Formula:	C ₃₄ H ₂₅ N ₂ NaO ₆ S
Molecular Weight:	612.63
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Violamine R (Acid Violet 9) is a potent fluorophore. Violamine R shows environment and temperature-dependent photoluminescence (PL) intermittency in poly(vinyl alcohol) (PVOH) and potassium acid phthalate (KAP). Violamine R can be used to measure the temperatures spanning the glass-transition temperature (T_g) of the polymer host by the fluorescence intermittency or blinking in poly(vinyl alcohol) (PVA)^{[1][2]}.

REFERENCES

- [1]. Riley EA, et al. Two mechanisms for fluorescence intermittency of single violamine R molecules. *Phys Chem Chem Phys*. 2011 Feb 7;13(5):1879-87.
- [2]. Daniel Sluss, et al. Temperature-dependent fluorescence intermittency for single molecules of violamine R in poly(vinyl alcohol)†. *J. Mater. Chem.*, 2009,19, 7561-7566.

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

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