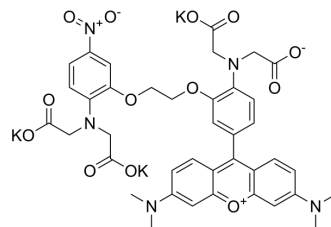


Rhod-5N

Cat. No.:	HY-136894
CAS No.:	888229-31-0
Molecular Formula:	C ₃₉ H ₃₆ K ₃ N ₅ O ₁₃
Molecular Weight:	900.02
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Rhod-5N is a calcium-binding fluorescent dye composed of a BAPTA chelating group and a rhodamine fluorophore. Rhod-5N is often added to MOPS buffer to complex and indicate cation content. The selectivity of Rhod-5N for Cd²⁺ is higher than other interfering cations ((Na⁺, K⁺, Mg²⁺, Ca²⁺, Zn²⁺) except Pb²⁺), and the detection limit is 3.1 µg/L^{[1][2]}.

REFERENCES

[1]. Soibinet M, Souchon V, Leray I, et al. Rhod-5N as a fluorescent molecular sensor of cadmium (II) ion[J]. Journal of fluorescence, 2008, 18: 1077-1082.

[2]. McNamara C J, Perry Iv T D, Bearce K, et al. Measurement of limestone biodeterioration using the Ca²⁺ binding fluorochrome Rhod-5N[J]. Journal of microbiological methods, 2005, 61(2): 245-250.

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

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