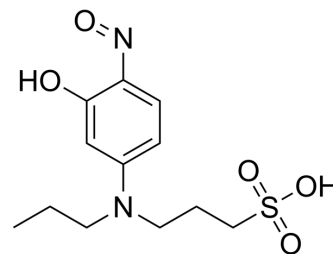


Nitroso-PSAP

Cat. No.:	HY-157926
CAS No.:	80459-15-0
Molecular Formula:	C ₁₂ H ₁₈ N ₂ O ₅ S
Molecular Weight:	302.35
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Nitroso-PSAP is a sensitive and specific chromogenic reagent for iron (Fe²⁺), which is used for the colorimetric determination of iron in blood after mineralization with periodic acid. TNitroso-PSAP chelates with iron (Fe²⁺) to produce a green complex ($\lambda_{\text{max}}=756 \text{ nm}$, Epsilon = $4.5 \times 10^4 \text{ dm}^3 \text{ mol}^{-1} \text{ cm}^{-1}$)^{[1][2]}.

REFERENCES

[1]. TAKAYANAGI M, et al. Direct Colorimetric Determination of Iron in Whole-Blood Based on Chelation with 2-Nitroso-5-(N-Propyl-N-Sulfopropylamino) Phenol (Nitroso-PSAP)[J]. Japanese Journal of Clinical Chemistry, 1985, 14(3): 155-160.

[2]. Yokota F, et al. Solid phase colorimetry of trace metal ions based on a tristimulus chromaticity diagram. Simultaneous determination of iron (II) and iron (III)[J]. Analytical Communications, 1997, 34(4): 111-112.

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

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