

**Sodium
Orthovanadate
(Vanadate)**



1-800-632-7799
info@neb.com
www.neb.com



P0758S 009151018101

P0758S

1 ml **Lot: 0091510** **Exp: 10/18**

100 mM **Store at -20°C**

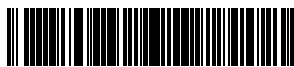
Description: Sodium Orthovanadate (Vanadate, Na_3VO_4) is a commonly used general inhibitor for protein phosphotyrosyl phosphatases (PTPs). It is a competitive inhibitor. The inhibition by Vanadate is completely reversible upon the addition of EDTA or by dilution. Vanadate has been activated for maximal inhibition of PTPs following the procedure described by J. A. Gordon (1).

Vanadate has been fully activated

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The PTP activities are conveniently separable from the protein phosphoseryl and phosphothreonyl phosphatase (PSP) activities inhibited by Fluoride (NEB #P0759) and EDTA. Routinely Vanadate is used to preserve the protein tyrosyl phosphorylation state in cells, cell lysates, and protein tyrosine kinase assays (1,2).

Supplied in: Sterile purified water adjusted to pH 10.0 (1,2).

Molecular Weight: 183.9 daltons

Purity: > 90% pure

Suggested Working Concentration: 1–10 mM

Notes on Use: Common buffer components such as EDTA and reducing agents may interact with Vanadate, affecting its potency (2).

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References:

1. Gordon, J. A. (1991) *Methods in Enzymology* 201, 477–482.
2. Huyer, G. et al. (1997) *J. Biol. Chem.* 272, 843–851.



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References:

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CERTIFICATE OF ANALYSIS

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