



LKT Laboratories, Inc.

## 4-Aminophenylphosphate Monosodium

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### Product Information

Product ID A5030

CAS No. 52331-30-3

Chemical Name 4-aminobenzenephosphoric sodium

#### Synonym

Formula  $C_6H_7NO_4PNa$

Formula Wt. 211.09

Melting Point 174-178°C

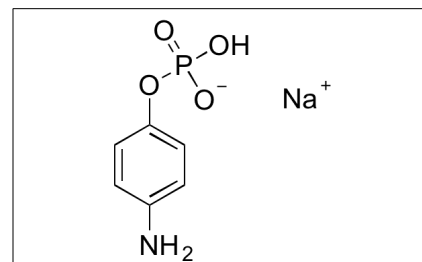
Purity  $\geq 97\%$

Solubility Soluble in methanol, water.

Store Temp -20°C

Ship Temp Ambient

Description 4-Aminophenyl phosphate is an alkaline phosphatase substrate used to quantify enzyme activity in immunoassays.



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
A5030	10 mg	\$47.60
A5030	50 mg	\$102.10
A5030	100 mg	\$163.50

**References** Akanda MR, Tamilavan V, Park S, et al. Hydroquinone diphosphate as a phosphatase substrate in enzymatic amplification combined with electrochemical-chemical-chemical redox cycling for the detection of E. coli O157:H7. *Anal Chem.* 2013 Feb 5;85(3):1631-6. PMID: 23327094.

Pemberton RM, Hart JP, Stoddard P, et al. A comparison of 1-naphthyl phosphate and 4 aminophenyl phosphate as enzyme substrates for use with a screen-printed amperometric immunosensor for progesterone in cows' milk. *Biosens Bioelectron.* 1999 May 31;14(5):495-503. PMID: 10451917.

Xiang Y, Zhang Y, Qian X, et al. Ultrasensitive aptamer-based protein detection via a dual amplified biocatalytic strategy. *Biosens Bioelectron.* 2010 Jul 15;25(11):2539-2542. PMID: 20452761.

Tang H, Lunte C, Halsall B, et al. p-Aminophenyl phosphate: an improved substrate for electrochemical enzyme immunoassay. *Analytica Chimica Acta.* 1988;214:187-195.

Frew J, Foulds N, Wilshire J, et al. Measurement of alkaline phosphatase activity by electrochemical detection of phosphate esters. *J Electroanal Chem.* 1989;266:309-316.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.