



LKT Laboratories, Inc.

4-Aminophenylphosphate Disodium

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Product Information

Product ID A5031

CAS No. 108084-47-5

Chemical Name

Synonym Disodium 4-aminophenyl phosphate

Formula $C_6H_6NO_4PNa_2 \cdot H_2O$

Formula Wt. 233.09

Melting Point

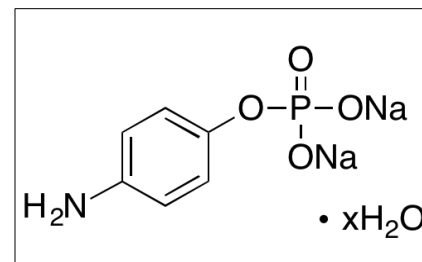
Purity $\geq 98\%$

Solubility Soluble in water to 50 mM

Store Temp $-20^\circ C$

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
A5031	25 mg	\$53.00
A5031	100 mg	\$150.00
A5031	250 mg	\$300.00

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.