Product Information

4-Aminophenyl Phosphate (sodium salt)
Item No. 17293

CAS Registry No.: 108084-47-5
Formal Name: 4-amino-phenol-1-(dihydrogen phosphate), monosodium salt
MF: C₆H₇NO₄P • Na
FW: 211.1
Purity: ≥98%
Stability: ≥2 year at -20°C
Supplied as: A crystalline solid
UV/Vis.: λmax<sub>max</sub>: 203, 233, 292 nm

Laboratory Procedures
For long term storage, we suggest that 4-aminophenyl phosphate (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.
4-Aminophenyl phosphate (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the 4-aminophenyl phosphate (sodium salt) in the solvent of choice. 4-Aminophenyl phosphate (sodium salt) is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 10 mg/ml.
Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 4-aminophenyl phosphate (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 4-aminophenyl phosphate (sodium salt) in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.
4-Aminophenyl phosphate is a substrate for alkaline phosphatase (ALP; Item No. 14670) that can be used in enzymatic reactions to quantify ALP activity. The enzymatic reaction results in the production of phenol, which is used to determine ALP concentrations.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/17293