PRODUCT INFORMATION

4-Aminobenzoic Acid (sodium salt)
Item No. 18659

CAS Registry No.: 555-06-6
Formal Name: 4-amino-benzoic acid, monosodium salt
Synonyms: PABA, p-Aminobenzoic Acid
MF: C₇H₆NO₂ • Na
FW: 159.1
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_max: 274 nm

Laboratory Procedures

For long term storage, we suggest that 4-aminobenzoic acid (PABA) (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

PABA (sodium salt) is supplied as a crystalline solid. PABA (sodium salt) is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of PABA (sodium salt) be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of PABA (sodium salt) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

PABA is an intermediate in the synthesis of tetrahydrofolic acid (Item No. 18263) in many non-mammalian organisms, including bacteria and fungi. Folates, like tetrahydrofolic acid, have critical roles in the metabolism of nucleic acid precursors and several amino acids, as well as in methylation reactions. In mammals, PABA is metabolized by a variety of enzymes, including N-acetyltransferases. It may also be utilized by bacteria or fungi that are living in mammalian organisms, including those resident in the gut.

References