

Product Name:	4-Aminobenzoic Acid
Product Number:	A049
CAS Number:	150-13-0
Molecular Formula:	$C_7H_7NO_2$
Molecular Weight:	137.14
Appearance:	White crystalline powder
Melting Point:	186-189°C
Storage Conditions:	Ambient, air and light sensitive
Description:	4-Aminobenzoic acid (PABA, para-aminobenzoic acid) is a B-vitamin derivative and is used by bacteria to synthesize folate (vitamin B9), an essential vitamin for bacteria and humans. 4-Aminobenzoic acid is sparingly soluble in water at 6.11 mg/mL.
Microbiology Applications	Folate (vitamin B9) plays an essential role in the synthesis, repair, and methylation of DNA. In addition, many sulfonamide antibiotics inhibit dihydropteroate synthetase, an enzyme involved in the folate synthesis pathway.
References:	Basset, Gilles. "Folate Synthesis in Plants: The P-aminobenzoate Branch Is Initiated by a Bifunctional PabA-PabB Protein That Is Targeted to Plastids." PNAS 101.6 (2004): 1496-501. Ncbi.gov. Web. 19 Nov. 2012.