

胺氧化酶说明书

中文名称：胺氧化酶

英文名称：PAO； Plasma Amine Oxidase

CAS 号：9001-66-5

级别：BR

来源：Bovine Plasma

Specific activity: ≥ 17 Tabor units/mg

活力定义: 1 international unit oxidizes 1 μ mole of benzylamine per minute at 25 $^{\circ}$ C, pH 7.2

催化反应:

产品描述: Bovine plasma amine oxidase has a molecular weight of 170 kDa and an optimum pH of 6.2 for spermine and 7.2 for spermidine. Amine oxidases are divided into two classes: the pyridoxal and copper containing enzyme to which plasma amine oxidase belongs, and the FAD-containing amino oxidases. Natural substrates include catecholamines, tryptamine derivatives and other physiologically active amines. Plasma amine oxidase is used in research requiring nitrogen group transfers. The molecule is composed of two identical polypeptide chains. There are two pyridoxal phosphates and two atoms of Cu⁺ per molecule. Bovine plasma amine oxidase is inhibited by copper chelating agents, many carboxyl reagents such as cuprizone, hydroxylamine and cyanide. Benzoic acid and benzyl alcohol are both non-competitive inhibitors (KI = 30 and 34mM respectively). The assay for determination of amine oxidases employed at Worthington is essentially that of Tabor

et al., JBC, 208, 645, (1954) with the reaction temperature reduced to 25
°C

性状(以下信息仅供参考): 粉末。EC3.1.1.4

用途: 本品仅供科研，不得用于其它用途

保存: -20°C