

Protocatechuate 3,4-dioxygenase from Pseudomonas sp

Product Code: 172659

EC: 1.13.11.3

SKU: 172659

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS

EC 1.13.11.3

Product name: Protocatechuate:oxygen 3,4 oxidoreductase (decyclizing)

Appearance: Light brown amorphous powder lyophilized

Activity: Grade III, 3.0 U/mg-solid or more (containing approx. 40% stabilizers)

Contaminants: NADPH oxidase $\leq 0.1\%$

Stability: Stable at $\pm 20^{\circ}\text{C}$ for at least 12 months

Molecular weight: approx. 700,000

Michaelis constant: $1.85 \times 10^{-5}\text{M}$ (Protocatechuate)

Structure: Protein with nonheme iron

Inhibitors: Ag^+ , Hg^{2+} , PCMB

Optimum pH: 9.0

Optimum temperature: 60–65°C

pH Stability: pH 7.0–9.0 (25°C, 72hr)

Thermal stability: below 50°C (pH 6.0, 1hr)