

**Protocatechuate 3,4-dioxygenase from Pseudomonas sp**

**Product Code:** 172659

**EC: 1.13.11.3**

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**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°C for at least 12 months

Molecular weight: approx. 700,000

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

Structure: Protein with nonheme iron

Inhibitors:  $\text{Ag}^+$ ,  $\text{Hg}^{2+}$ , PCMB

Optimum pH: 9.0

Optimum temperature:  $60\text{--}65^\circ\text{C}$

pH Stability: pH 7.0–9.0 (25°C, 72hr)

Thermal stability: below  $50^\circ\text{C}$  (pH 6.0, 1hr)