

Sarcosine oxidase, Enzyme Activity

Catalog	Unit
TBP0042-100U	100U
TBP0042-500U	500U

Preparation and Specification

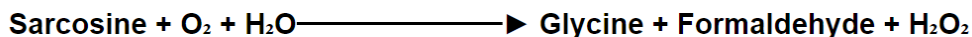
Appearance: Yellowish amorphous powder, lyophilized

Activity: Grade III 8.0U/mg-solid or more

Contaminant: Catalase $\leq 1.0\%$

Stabilizers: Potassium gluconate

Sarcosine: oxygen oxidoreductase (demethylating) (EC 1.5.3.1)



Properties

Stability: Stable at -20°C for at least One year

Molecular weight: approx. 43,000 (by SDS-PAGE)

Isoelectric point: 4.8 ± 0.1

Michaelis constant: $2.8 \times 10^{-3}\text{M}$

Inhibitors: Cu^{++} , Ag^{+} , Hg^{++} , p-chloromercuribenzoate, N-ethylmaleimide, SDS

Optimum pH: 7.5-8.5

Optimum temperature: $55-60^\circ\text{C}$

pH Stability: 6.0-9.5 (25°C , 20hr)

Thermal stability: below 60°C (pH 7.5, 30min)

Applications

This enzyme is useful for enzymatic determination of creatinine, creatine, and sarcosine when coupled with creatinine amidohydrolase and creatine amidinohydrolase.

For research use only