

Taurine Dioxygenase from E. coli, Recombinant

Cat. No. NATE-1648

Lot. No. (See product label)

Introduction

Description Taurine dioxygenase (TauD) is a Fe(II) and α-ketoglutaric aciddependent

dioxygenase, which enables E.coli to use taurine as a sulfur source. The oligomeric state of the enzyme from E.coli is reported both as a dimer and tetramer. It contains a 2-His, 1- carboxylate facial triad, which is present in most members of the family of Fe(II)/ α -KG-dependent enzymes. TauD catalyzes the conversion of the

amino acid taurine (2-aminoethane-1-sulfonic acid) to sulfite and

aminoacetaldehyde.

Synonyms TauD; 2-aminoethanesulfonate dioxygenase; Sulfate starvation-induced protein 3;

SSI3; alpha-ketoglutarate-dependent taurine dioxygenase

Product Information

Source E. coli

Form Liquid

Formulation 0.5 mg/ml in 20 mM Tris-HCl buffer (pH 8.0) containing 100 mM NaCl, 1 mM DTT, 2

mM EDTA and 40% glycerol.

EC Number EC 1.14.11.17

Molecular Weight 34.3 kDa, His tagged

Purity > 90% by SDS-PAGE

Activity >170 mU/mg

Concentration 2 mg/ml

Unit Definition One unit is the amount of enzyme that converts 1 µmole of taurine to sulfite per

minute at pH 6.9 at 30 °C.

Storage and Shipping Information

Tel: 1-631-562-8517 1-516-512-3133

Storage Aliquot and store at -20°C. Avoid repeated freeze-thaw cycles.

Email: info@creative-enzymes.com

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