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Recombinant E. coli, Taurine Dioxygenase (TauD)

TauD, 2-aminoethanesulfonate dioxygenase, Sulfate starvation-induced protein 3, SSI3
Catalog # PBV11551r

Specification

Recombinant E. coli, Taurine Dioxygenase (TauD) - Product info

Primary Accession	P37610
Concentration	**1.5 mg/ml**
Calculated MW	**34.3 kDa KDa**

Recombinant E. coli, Taurine Dioxygenase (TauD) - Additional Info

Gene ID	**945021**

Other Names
TauD, 2-aminoethanesulfonate dioxygenase, Sulfate starvation-induced protein 3, SSI3

Gene Source	**E. coli**
Source	**E. Coli**
Assay&Purity	**SDS-PAGE;≥90%**
Recombinant	**Yes**

Target/Specificity
tauD

Format
Liquid

Storage
-20°C;50 mM Sodium phosphate, pH 7.0 and 30% glycerol

Recombinant E. coli, Taurine Dioxygenase (TauD) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant E. coli, Taurine Dioxygenase (TauD) - Images

Recombinant E. coli, Taurine Dioxygenase (TauD) - Background

Taurine dioxygenase (TauD) is a Fe(II) and α-ketoglutaric acid-dependent 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.