

PACO35098

Product Information

Size:

50ug

Reactivity:

Bacillus subtilis

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA

Recommended dilutions:**Protein Background:**

Catalyzes the FAD-dependent oxidative deamination of various amines and D-amino acid, to yield the corresponding alpha-keto acid, ammonia/amine, and hydrogen peroxide. Oxidizes sarcosine (N-methylglycine), N-ethylglycine and glycine. Can also oxidize the herbicide glyphosate (N-phosphonomethylglycine). Displays lower activities on D-alanine, D-valine, D-proline and D-methionine. Does not act on L-amino acid, and other D-amino acid. Is essential for thiamine biosynthesis since the oxidation of glycine catalyzed by ThiO generates the glycine imine intermediate (dehydroglycine) required for the biosynthesis of the thiazole ring of thiamine pyrophosphate.

Gene ID:

thiO

Uniprot

O31616

Synonyms:

Glycine oxidase (GO) (EC 1.4.3.19), thiO, goxB yjbR

Immunogen:

Recombinant Bacillus subtilis Glycine oxidase protein (1-369AA).

Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

Product Images

N/A

N/A