

S-alkylcysteine lyase

Cat. No. EXWM-5340

Lot. No. (See product label)

Introduction

Description A pyridoxal-phosphate protein. The enzyme cleaves a carbon-sulfur bond, releasing an alkyl thiol and an

unstable enamine product that tautomerizes to an imine form, which undergoes a hydrolytic deamination to form pyruvate and ammonia. The latter reaction, which can occur spontaneously, can also be catalysed by EC 3.5.99.10, 2-iminobutanoate/2-iminopropanoate deaminase. Possibly identical, in yeast, with EC

4.4.1.8 cystathionine β -lyase.

Synonyms S-alkylcysteinase; alkylcysteine lyase; S-alkyl-L-cysteine sulfoxide lyase; S-alkyl-L-cysteine lyase; S-alkyl-L-cysteine lyase; S-alkyl-L-cysteine sulfoxide lyase; S-alkyl-L-cysteine lyase;

L-cysteinase; alkyl cysteine lyase; S-alkyl-L-cysteine alkylthiol-lyase (deaminating)

Product Information

Form Liquid or lyophilized powder

EC Number EC 4.4.1.6

CAS No. 62213-27-8

Reaction an S-alkyl-L-cysteine + H2O = an alkyl thiol + NH3 + pyruvate (overall reaction); (1a) an S-alkyl-L-

cysteine = an alkyl thiol + 2-aminoprop-2-enoate; (1b) 2-aminoprop-2-enoate = 2-iminopropanoate

(spontaneous); (1c) 2-iminopropanoate + H2O = pyruvate + NH3 (spontaneous)

Notes This item requires custom production and lead time is between 5-9 weeks. We can custom produce

according to your specifications.

Storage and Shipping Information

Storage Store it at +4 °C for short term. For long term storage, store it at -20 °C \sim -80 °C.

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