

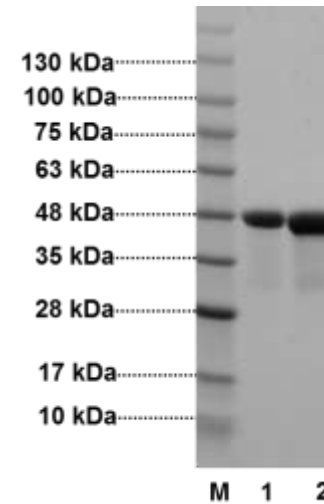
L-Methionine γ -Lyase, *Pseudomonas putida* recombinant

CATALOG #:	7848-100	100 μ g
	7848-500	500 μ g
ALTERNATIVE NAMES:	L-Methionine- α -deamino- γ -mercaptomethane-Lyase, Methioninase, METase, MGL, mdeA	
SOURCE:	<i>E. coli</i>	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 10 mg/ml in 20 mM potassium phosphate, 150 mM NaCl, pH 8.3.	
RECONSTITUTION:	Briefly spin down and reconstitute in water or phosphate buffer.	
STORAGE CONDITIONS:	Store at -20°C . Stable for at least 1 year as supplied. Avoid repeated freeze and thaw cycles.	
PURITY:	$\geq 90\%$ by SDS-PAGE.	
MOL. WT.:	47.1 kDa (1-398 aa, NT Poly-His Tag)	
SPECIFIC ACTIVITY:	≥ 0.5 U/mg	
UNIT DEFINITION:	One unit is defined as the amount of enzyme required to convert 1.0 μ mole of L-methionine to α -ketobutyrate, methanethiol and ammonia per minute in 20 mM potassium phosphate, pH 8.3, 150 mM NaCl at 37°C	

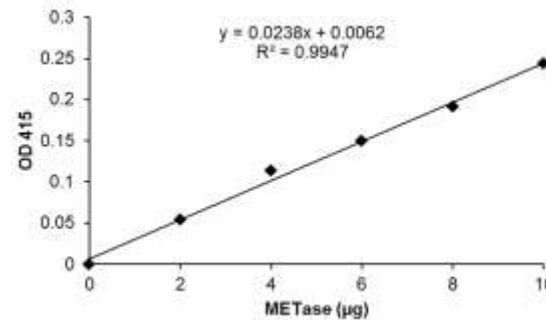
BACKGROUND: Methionine gamma-lyase (EC 4.4.1.11) from *Pseudomonas putida* is a PLP-dependent enzyme which plays a central role in sulfur amino acid metabolism. METase catalyzes the α , γ -elimination of methionine to α -ketobutyrate, methanethiol, and ammonia. METase also catalyzes the α , γ -elimination of other sulfur containing amino acids, such as homocysteine, cysteine. Because of its ability to deplete methionine, METase has been considered as a viable component of cancer therapeutics against methionine-dependent tumor cells. METase has also been utilized to design drug targets for the infectious diseases caused by parasitic protozoa and anaerobic periodontal bacteria.

APPLICATIONS: Recombinant bacterial Methionine γ -lyase can be used in inhibitor screening assays, activity studies, selectivity profiling, western blotting, ELISA, and numerous similar applications.

For Research Use Only! Not to be used in humans



SDS-PAGE (4-20%) of METase:
M: Protein Marker
1: METase (10 μ g)
2: METase (15 μ g)



Catalytic activity of purified METase in converting L-methionine to α -ketobutyrate, methanethiol and ammonia

RELATED PRODUCTS:

- Cystathionine β Synthase, human recombinant (Cat # 7844-100, 500)
- Human Recombinant Glyoxalase I (Cat # 6389-100)
- Glycine Oxidase, bacterial Recombinant (Cat# 7845-250 -1000)