

L-Methionine γ -Lyase, *Pseudomonas putida* recombinant protein
L-Methionine- α -deamino- γ -mercaptomethane-Lyase, Methioninase, METase, MGL, mdeA
Catalog # PBV11407r

Specification

L-Methionine γ -Lyase, *Pseudomonas putida* recombinant protein - Product info

Primary Accession [P13254](#)
Calculated MW **47.1 kDa (1-398 aa, NT Poly-His Tag) KDa**

L-Methionine γ -Lyase, *Pseudomonas putida* recombinant protein - Additional Info

Gene Symbol	mdeA
Other Names	
L-Methionine- α -deamino- γ -mercaptomethane-Lyase, Methioninase, METase, MGL, mdeA	
Gene Source	<i>Pseudomonas putida</i>
Source	<i>E. coli</i>
Assay&Purity	SDS-PAGE; $\geq 90\%$
Assay2&Purity2	HPLC;
Recombinant	Yes
Results	≥ 0.5 U/mg.
Sequence	1-398 aa, NT Poly-His Tag
Target/Specificity	
L-Methionine γ -Lyase	

Application Notes

Briefly spin down and reconstitute in water or phosphate buffer.

Format

Lyophilized

Storage

-20°C; Lyophilized from 10 mg/ml in 20 mM potassium phosphate, 150 mM NaCl, pH 8.3.

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

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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

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

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

Inoue H., et al. J. Biochem. 117:1120-1125(1995).
Inoue H., et al. J. Bacteriol. 179:3956-3962(1997).
Nakayama T., et al. Biochemistry 27:1587-1591(1988).