

L-Methionine γ -lyase

Chemical Properties

CAS No. : 42616-25-1

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	L-Methionine γ -lyase (Methionine lyase), a multifaceted enzyme in the γ -family of pyridoxal-5'-phosphate (PLP)-dependent enzymes, catalyzes the α , γ -elimination of L-methionine and homocysteine. This enzyme exhibits anticancer and anti-infectious properties and is utilized in homocysteinemia research [1][2][3].
Targets(IC50)	Others
In vitro	L-Methionine γ -lyase (Methionine lyase) demonstrates anticancer activity against liver cancer cell lines (Hep-G2 and HCT-116) at concentrations up to 1000 μ g/mL over 24 hours [1]. Furthermore, it exhibits cytotoxicity toward colorectal, hepatocellular, ovarian adenocarcinoma, and lung adenocarcinoma cancer cells, with IC50 values ranging from 0.05 to 2.14 Unit/mL [2].
In vivo	L-Methionine γ -lyase (Methionine lyase), administered subcutaneously at a dose of 3×10^{10} CFU over four days, attenuated P. gingivalis-induced periodontitis in BALB/c mice [3].

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