Adenosine deaminase, microorganism

Cat. No.:	HY-114175
CAS No.:	9026-93-1
Target:	Adenosine Deaminase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

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BIOLOGICAL ACTIVITY

Description	Adenosine deaminase (RnADA) (EC 3.5.4.4) is an enzyme that catalyzes the irreversible deamination of adenosine and 2'-deoxyadenosine to inosine and 2'-deoxyinosine, respectively.
In Vitro	Adenosine deaminase (RnADA) catalyzes the irreversible deamination of adenosine and 2′-deoxyadenosine to inosine and 2′-deoxyinosine, respectively. Adenosine deaminase (RnADA) is implicated in purine metabolism and distributed in most mammalian tissues. Genetic Adenosine deaminase deficiency results in lymphopenia and severe combined immunodeficiency disease by decreasing the differentiation and maturation of lymphoid cells[1]. Adenosine deaminase (RnADA) is a signaling molecule related to the activation of T lympho-cytes, making it a useful inflammation marker, especially for menin-gitis and tuberculous pleuritis[2]. This product is derived fro M microbial recombinant protein, is stable at pH 7.0-9.0, and has a molecular weight of 42 kDa (SDS-PAGE). Solution preparation Reconstitute with pure water containing 20% ??glycerol, aliquot according to dosage and freeze at 20⊠. It can be stored for 2 years. Try to avoid repeated freezing and thawing.pH7 0 9.0 means the product is stable. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tian X, et al. Probing inhibition mechanisms of adenosine deaminase by using molecular dynamics simulations. PLoS One. 2018 Nov 16;13(11):e0207234.

[2]. Silva Dalsasso Joaquim L, et al. Analytical validation of an in-house method for adenosine deaminase determination. J Clin Lab Anal. 2018 Nov 29:e22823.

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