

Recombinant Human ADA protein (His tag)

Catalog Number:PDEH100156



Note: Centrifuge before opening to ensure complete recovery of vial contents.

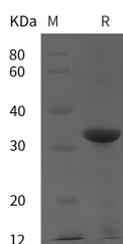
Description

Synonyms	ADA;ADA1;adenine deaminase;Adenosine aminohydrolase;Adenosine Deaminase;EC 3.5.4.4
Species	Human
Expression Host	E.coli
Sequence	Lys 11-Val 280
Accession	P00813
Calculated Molecular Weight	29.6 kDa
Observed molecular weight	32 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Adenosine Deaminase (ADA, adenosine aminohydrolase) is one of the key enzymes of purine nucleotide catabolism. It catalyses the hydrolytic deamination of adenosine and deoxyadenosine to inosine and deoxyinosine. ADA is expressed in virtually all tissues and is expressed at high levels in T-lymphocytes. Adenosine Deaminase deficiency can cause a form of SCID (severe combined immunodeficiency) and lymphopenia in both B- and T-cell lineages ADA can be used as a sensitive diagnostic marker for tuberculous pleuritis. Although it is primarily a cytosolic enzyme, ADA is known to be a positive regulator of T-cell coactivation due to its binding to CD26 at the cell surface. The interaction of ADA with CD26 regulates lymphocyte-epithelial cell adhesion.

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