Creative Enzymes
Diagnostic Enzymes

Recombinant Adenosine Deaminase (ADA)

Product Information

Cat#	BDE-046
Description	ADA is a key enzyme in purine metabolism that deaminates adenosine to inosine and ammonia, and also converts AMP to IMP. IMP is further metabolized to inosine, with uric acid as the final product.
Applications	Used in adenosine deaminase activity assay kits, applied for the auxiliary diagnosis of tuberculous pleural and peritoneal effusions and liver disease.
Enzyme Commission Number	EC 3.5.4.4
Form	Lyophilized powder or solution
Source	Recombinant microbial proteins
Activity	200 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to convert 1 μmol of adenosine to inosine per minute under specified assay conditions (25 °C, pH 7.4).
Molecular Weight	40 kDa (SDS-PAGE)
Purity	≥ 90% by SDS-PAGE
Optimum pH	7.0-9.0
Storage	Store at -20°C for at least one year, or at -80°C for two years.
Notes	It can be resuspended in purified water containing 20% glycerol and stored at 4°C for approximately one year; after aliquoting according to usage, store at -20°C for longer-term preservation. Avoid repeated freeze-thaw cycles of the protein solution as much as possible.

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