

## Adenine Deaminase (EcAdeD)

### Product Information

|                                 |                                                                                                                                                                                                                                                                                                                                          |
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| <b>Cat#</b>                     | DIA-592                                                                                                                                                                                                                                                                                                                                  |
| <b>Descriptions</b>             | Adenine deaminase derived from Escherichia coli specifically facilitates adenine deamination reaction to generate hypoxanthine. It participates in bacterial purine degradation metabolism, relieves intracellular metabolite toxicity and serves as ideal biocatalyst for purine compound preparation and microbial metabolic research. |
| <b>Applications</b>             | Adenine deaminase (EcAdeD) is applied in purine metabolism related detection kit development and nucleoside assay reagent raw material preparation.                                                                                                                                                                                      |
| <b>CAS No.</b>                  | 135-4-21                                                                                                                                                                                                                                                                                                                                 |
| <b>Enzyme Commission Number</b> | EC 3.5.4.2                                                                                                                                                                                                                                                                                                                               |
| <b>Enzyme Source</b>            | E.coli recombinant Ec Ade D from Escherichia coli.                                                                                                                                                                                                                                                                                       |
| <b>Reaction</b>                 | Adenine + H <sup>+</sup> + H <sub>2</sub> O = Hypoxanthine + NH <sub>4</sub> <sup>+</sup>                                                                                                                                                                                                                                                |
| <b>Activity Definition</b>      | One unit is defined as the amount of enzyme that catalyzes the formation of 1 μmol of adenine from hypoxanthine at 37°C.                                                                                                                                                                                                                 |