

## ATP-Sulfurylase (AnSAT)

### Product Information

|                                 |                                                                                                                                                                                                                                                                                                                                   |
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| <b>Cat#</b>                     | DIA-635                                                                                                                                                                                                                                                                                                                           |
| <b>Descriptions</b>             | ATP-Sulfurylase (AnSAT) from <i>Aspergillus niger</i> mediates the activation of sulfate by catalyzing the reaction between ATP and sulfate to produce adenosine 5'-phosphosulfate, plays a core role in microbial sulfur assimilation metabolism, and supports sulfated glycan synthesis and metabolic engineering applications. |
| <b>Applications</b>             | ATP-Sulfurylase (AnSAT) is used for sulfur metabolism pathway detection kit development and sulfated glycan synthesis assay reagent development.                                                                                                                                                                                  |
| <b>CAS No.</b>                  | 127-7-41                                                                                                                                                                                                                                                                                                                          |
| <b>Enzyme Commission Number</b> | EC 2.7.7.4                                                                                                                                                                                                                                                                                                                        |
| <b>Enzyme Source</b>            | E.coli recombinant ATP-Sulfurylase from <i>Cyanobacterium Synechococcus</i> 6301.                                                                                                                                                                                                                                                 |
| <b>Reaction</b>                 | ATP+SO <sub>4</sub> <sup>2-</sup> =APS                                                                                                                                                                                                                                                                                            |
| <b>Activity Definition</b>      | The amount of enzyme required to catalyze 1 μmol ATP per minute                                                                                                                                                                                                                                                                   |