

## adenylyl-sulfate reductase (glutathione)

Cat. No. EXWM-1675

Lot. No. (See product label)

### Introduction

**Description** This enzyme differs from EC 1.8.99.2, adenylyl-sulfate reductase, in using glutathione as the reductant. Glutathione can be replaced by  $\gamma$ -glutamylcysteine or dithiothreitol, but not by thioredoxin, glutaredoxin or mercaptoethanol. The enzyme from the mouse ear cress, *Arabidopsis thaliana*, contains a glutaredoxin-like domain. The enzyme is also found in other photosynthetic eukaryotes, e.g., the Madagascar periwinkle, *Catharanthus roseus* and the hollow green seaweed, *Enteromorpha intestinalis*.

**Synonyms** 5'-adenylylsulfate reductase (also used for EC 1.8.99.2); AMP,sulfite:oxidized-glutathione oxidoreductase (adenosine-5'-phosphosulfate-forming); plant-type 5'-adenylylsulfate reductase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.8.4.9

**CAS No.** 355840-27-6

**Reaction** AMP + sulfite + glutathione disulfide = adenylyl sulfate + 2 glutathione

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.