

## 2'-phosphotransferase

Cat. No. EXWM-2990

Lot. No. (See product label)

### Introduction

**Description** Catalyses the final step of tRNA splicing in the yeast *Saccharomyces cerevisiae*. The reaction takes place in two steps: in the first step, the 2'-phosphate on the RNA substrate is ADP-ribosylated, causing the release of nicotinamide and the formation of the reaction intermediate, ADP-ribosylated tRNA. In the second step, dephosphorylated (mature) tRNA is formed along with ADP ribose 1'',2''-cyclic phosphate. Highly specific for oligonucleotide substrates bearing an internal 2'-phosphate. Oligonucleotides with only a terminal 5'- or 3'-phosphate are not substrates.

**Synonyms** yeast 2'-phosphotransferase; Tpt1; Tpt1p; 2'-phospho-tRNA:NAD<sup>+</sup> phosphotransferase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.7.1.160

**CAS No.** 126905-00-8

**Reaction** 2'-phospho-[ligated tRNA] + NAD<sup>+</sup> = mature tRNA + ADP-ribose 1'',2''-phosphate + nicotinamide

**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.