

## xenobiotic-transporting ATPase

Cat. No. EXWM-4683

Lot. No. (See product label)

### Introduction

**Description** ABC-type (ATP-binding cassette-type) ATPase, characterized by the presence of two similar ATP-binding domains. Does not undergo phosphorylation during the transport process. The enzyme from Gram-positive bacteria and eukaryotic cells export a number of drugs, with unusual specificity, covering various groups of unrelated substances, while ignoring some that are closely related structurally. Several distinct enzymes may be present in a single eukaryotic cell. Many of them transport glutathione-drug conjugates. Some also show some 'flippase' (phospholipid-translocating ATPase; EC 3.6.3.1) activity.

**Synonyms** multidrug-resistance protein; MDR protein; P-glycoprotein; pleiotropic-drug-resistance protein; PDR protein; steroid-transporting ATPase; ATP phosphohydrolase (steroid-exporting)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 7.6.2.2 (Formerly EC 3.6.3.44)

**Reaction**  $\text{ATP} + \text{H}_2\text{O} + \text{xenobioticin} = \text{ADP} + \text{phosphate} + \text{xenobioticout}$

**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.