

Ca²⁺-transporting ATPase

Cat. No. EXWM-4697

Lot. No. (See product label)

Introduction

Description A P-type ATPase that undergoes covalent phosphorylation during the transport cycle. This enzyme family comprises three types of Ca²⁺-transporting enzymes that are found in the plasma membrane, the sarcoplasmic reticulum and in yeast. The first and third transport one ion per ATP hydrolysed, whereas the second transports two ions. Ca²⁺ is transported from the cytosol [side 1] into the sarcoplasmic reticulum in muscle cells [side 2].

Synonyms sarcoplasmic reticulum ATPase; sarco(endo)plasmic reticulum Ca²⁺-ATPase; calcium pump; Ca²⁺-pumping ATPase; plasma membrane Ca-ATPase

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.6.3.8

Reaction $\text{ATP} + \text{H}_2\text{O} + \text{Ca}^{2+}[\text{side 1}] = \text{ADP} + \text{phosphate} + \text{Ca}^{2+}[\text{side 2}]$

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.