

myosin-heavy-chain kinase

Cat. No. EXWM-3158

Lot. No. (See product label)

Introduction

Description

The enzyme from Dictyostelium sp. (slime moulds) brings about phosphorylation of the heavy chains of Dictyostelium myosin, inhibiting the actin-activated ATPase activity of the myosin. One threonine residue in each heavy chain acts as acceptor. While the enzyme from some species is activated by actin, in other cases Ca²⁺/calmodulin are required for activity.

Synonyms

ATP:myosin-heavy-chain O-phosphotransferase; calmodulin-dependent myosin heavy chain kinase; MHCK; MIHC kinase; myosin heavy chain kinase; myosin I heavy-chain kinase; myosin II heavy-chain kinase; [myosin-heavy-chain] kinase; myosin heavy chain kinase A; STK6

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.11.7

CAS No.

64763-54-8

Reaction

ATP + [myosin heavy-chain] = ADP + [myosin heavy-chain] phosphate

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.