

rhomboid protease

Cat. No. EXWM-4100

Lot. No. (See product label)

Introduction

Description

These endopeptidases are multi-spanning membrane proteins. Their catalytic site is embedded within the membrane and they cleave type-1 transmembrane domains. A catalytic dyad is involved in proteolysis rather than a catalytic triad, as was thought previously. They are important for embryo development in *Drosophila melanogaster*. Rhomboid is a key regulator of EGF receptor signalling and is responsible for cleaving Spitz, the main ligand of the *Drosophila* EGF receptor pathway. Belongs in peptidase family S54. Parasite-encoded rhomboid enzymes are also important for invasion of host cells by *Toxoplasma* and the malaria parasite. Rhomboids are widely conserved from bacteria to archaea to humans.

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.4.21.105

CAS No. 713145-02-9

Reaction Cleaves type-1 transmembrane domains using a catalytic dyad composed of serine and histidine that are contributed by different transmembrane domains

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.