Creative Enzymes®

site-1 protease

Cat. No. EXWM-4107

Lot. No. (See product label)

Introduction

Description	Cleaves sterol regulatory element-binding proteins (SREBPs) and thereby initiates a process by which the active fragments of the SREBPs translocate to the nucleus and activate genes controlling the synthesis and uptake of cholesterol and unsaturated fatty acids into the bloodstream. The enzyme also processes pro-brain-derived neurotrophic factor and undergoes autocatalytic activation in the endoplasmic reticulum through sequential cleavages. The enzyme can also process the unfolded protein response stress factor ATF6 at an Arg-His-Lys-Lys┼ site, and the envelope glycoprotein of the highly infectious Lassa virus and Crimean Congo hemorrhagic fever virus at Arg-Arg-Lys-Lys┼. Belongs in peptidase family S8A.
Synonyms	mammalian subtilisin/kexin isozyme 1; membrane-bound transcription factor site-1 protease; proprotein convertase SKI-1; proprotein convertase SKI-1/S1PPS1; S1P endopeptidase; S1P protease; site-1 peptidase; site-1 protease; SKI-1; SREBP proteinase; SREBP S1 protease; SREBP-1 proteinase; SREBP-2 proteinase; sterol regulatory element-binding protein proteinase; sterol regulatory element-binding protein site 1 protease; sterol-regulated luminal protease; subtilase SKI-1; subtilase SKI-1/S1P; subtilisin/kexin-isozyme 1

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.4.21.112
CAS No.	167140-48-9
Reaction	Processes precursors containing basic and hydrophobic/aliphatic residues at P4 and P2, respectively, with a relatively relaxed acceptance of amino acids at P1 and P3
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.