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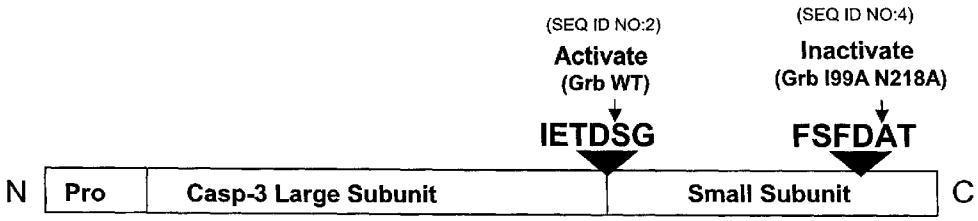
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(54) Title: METHODS OF GENERATING AND SCREENIGN FOR PORTEASES WITH ALTERED SPECIFICITY



Large Subunit

MENTENSVDS KSIKNLEPKI IHGSESMDSG ISLDNSYKMD
YPEMGLCIII NNKNFHKSTG MTSRSGTDVD AANLRETFRN
LKYEVRNKND LTREEIVELM RDVSKEDHSK RSSFVCVLLS
HGEEGIIFGT NGPVDLKKIT NFFRGDRCRS LTGKPKLFII
QA**C**RGTELDC G**IETD**

Small Subunit

SGVDDDMACH KIPVDADFLY AYSTAPGYYS WRNSKDGSWF
IQSLCAMLKQ YADKLEFMHI LTRVNRKVAT EFES**FSFDAT**
FHAKKQIPCI VSMLTKELYF YH (SEQ ID NO:1)

(57) Abstract: Disclosed herein are methods for generating proteases with altered specificity for the target molecules they cleave. The invention further discloses methods of using these proteases to treat diseases in which the target proteins are involved with. Cleaving certain target proteins at certain substrate sequences with a protease is a method for treating these pathologies.

WO 2004/031733 A2

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