

Title (en)  
STABILIZED VARIANTS OF STREPTOMYCES SUBTILISIN INHIBITOR

Title (de)  
STABILISIERTE VARIANTEN DES STREPTOMYCES SUBTILISIN INHIBITORS

Title (fr)  
VARIANTS STABILISES D'INHIBITEUR DE SUBTILISINE DE STREPTOMYCES

Publication  
**EP 1093518 A2 20010425 (EN)**

Application  
**EP 99932287 A 19990707**

Priority  
• US 9915246 W 19990707  
• US 9191198 P 19980626

Abstract (en)  
[origin: WO0001826A2] The present invention relates to variants of Streptomyces subtilisin inhibitor (SSI) and those inhibitors having homology to SSI. Such variants are useful in conjunction with enzymes, particularly proteases, in cleaning compositions and personal care compositions. The variants comprise an amino acid substitution at position 63 corresponding to SSI. Such variants provide greater proteolytic stability in cleaning compositions and personal care compositions. The present invention also relates to cleaning compositions and personal care compositions comprising the present variants, as well as genes encoding the variants.

IPC 1-7  
**C12N 15/31**; **C07K 14/81**; **C11D 3/33**; **C11D 3/386**

IPC 8 full level  
**C07K 14/81** (2006.01); **C11D 3/33** (2006.01); **C11D 3/37** (2006.01); **C11D 3/386** (2006.01); **C12N 15/09** (2006.01); **C12N 15/31** (2006.01)

CPC (source: EP)  
**C07K 14/811** (2013.01); **C11D 3/33** (2013.01); **C11D 3/3719** (2013.01); **C11D 3/38618** (2013.01)

Citation (search report)  
See references of WO 0001826A2

Cited by  
CN103842378A; US9403897B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0001826 A2 20000113**; **WO 0001826 A3 20000406**; AR 020106 A1 20020410; AU 4862399 A 20000124; BR 9912519 A 20010502; CA 2332564 A1 20000113; CN 1316000 A 20011003; EP 1093518 A2 20010425; JP 2004500007 A 20040108

DOCDB simple family (application)  
**US 9915246 W 19990707**; AR P990103288 A 19990707; AU 4862399 A 19990707; BR 9912519 A 19990707; CA 2332564 A 19990707; CN 99810458 A 19990707; EP 99932287 A 19990707; JP 2000558216 A 19990707