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Datasheet

Turbo3C Protease

Catalog Number: P5380

Regulation Status: For research use only (RUO)

Product Description: Human rhinovirus (HRV) 3C protease with GST and His tags expressed in *Escherichia coli*.

Host: Escherichia coli

Theoretical MW (kDa): 47

Biological function: Turbo3C Protease is a cysteine protease that recognizes the cleavage site of Leu-Glu-Val-Leu-Phe-Gln-Gly-Pro, commonly referred to as the PreScission Site. It cleaves between Gln and Gly.

Applications: Enzyme
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: No non-specific cleavage of target cleavage protein is observed at protease-to-control cleavage protein ratio of 1:10.

Form: Liquid

Preparation Method: *Escherichia coli* expression system

Concentration: 2 mg/ml

Purity: > 99% by SDS-PAGE

Endotoxin Level: < 5 EU/mg by Charles River EndoSafe-PTS

Activity: > 1 Units/ug. 1 Units of Turbo3C (HRV3C) Protease cleaves > 95% of 100 ug of target cleavage protein at 4°C for 16 hours.

Recommend Usage: Application that require protein digestion.

Storage Buffer: In 25 mM Tris-HCl, pH8.0, 50 mM NaCl, 1 mM TCEP, 50% glycerol

Storage Instruction: Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

References:

1. Characterisation of the enzyme transport path between shipworms and their bacterial symbionts. Giovanna Pesante, Federico Sabbadin, Luisa Elias, Clare Steele-King, J Reuben Shipway, Adam A Dowle, Yi Li, Marta Busse-Wicher, Paul Dupree, Katrin Besser, Simon M Cragg, Neil C Bruce, Simon J McQueen-Mason. BMC Biol. 2021 Nov 1;19(1):233. doi: 10.1186/s12915-021-01162-6.
2. Soluble expression of IGF1 fused to DsbA in SHuffle™ T7 strain: optimization of expression and purification by Box-Behnken design. Emamipour N, Vossoughi M, Mahboudi F, Golkar M, Fard-Esfahani P. Appl Microbiol Biotechnol. 2019 Apr;103(8):3393-3406. doi: 10.1007/s00253-019-09719-w. Epub 2019 Mar 14.