Bioactive

Turbo3C Protease

Catalog # P5380 Size 1 mg

Applications

Result of activity analysis

Result of activity analysis

A 68 kDa GST-fusion protein (C) at 1 mg/ml is incubated with Turbo3C Protease (*) at a ratio of (1) 1:50, (2) 1:100, (3) 1:200, (4) 1:400 (w/w) in a buffer of 25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 14 mM b-mercaptoethanol at 4°C for 16 hours. The cleaved products are 42 kDa and 26 kDa.

Specification

Product Description	Human rhinovirus (HRV) 3C protease with GST and His tags expressed in *Escherichia coli*.
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.
Host	Escherichia coli
Theoretical MW (kDa)	47
Specificity	No non-specific cleavage of target cleavage protein is observed at protease-to-control cleavage prot ein 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 prot ein at 4°C for 16 hours.

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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.
Note	Result of activity analysis Result of activity analysis A 68 kDa GST-fusion protein (C) at 1 mg/ml is incubated with Turbo3C Protease (*) at a ratio of (1) 1 :50, (2) 1:100, (3) 1:200, (4) 1:400 (w/w) in a buffer of 25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 14 mM b-mercaptoethanol at 4°C for 16 hours. The cleaved products are 42 kDa and 26 kDa.

Applications

- Enzyme Activity

Publication Reference

- 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 Biology 2021 Nov; 19(1):233.

  Application: Func, Strep-tag

- 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.

  Applied Microbiology and Biotechnology 2019 Apr; 103(8):3393.

  Application: Func, DsbA-IGF1 protein

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