



Protein & Crystallography Facility

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Website: medicine.uiowa.edu/crystallography

Product Data Sheet

TEV protease (N-term His tag)

Catalog # TEV-00-001

Description

Source: Tobacco Etch Virus

Expression: E.coli BL21 (DE3)

Concentration: 1 mg/mL

Volume: 250 uL

MW by seq: 28 kDa

Buffer: 50 mM Na₂HPO₄ pH 8.0, 100 mM NaCl, 10% glycerol

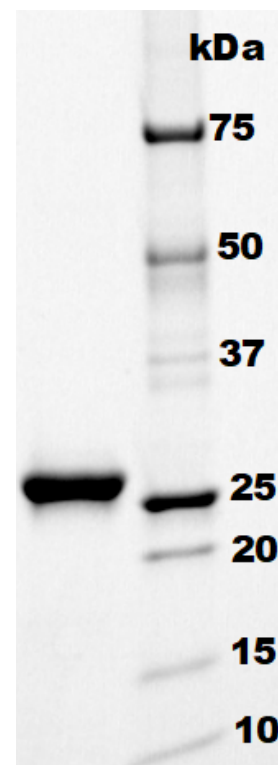
Physical Form: Supplied as a solution in buffer above.

Storage: 4°C short term (1 week), -20°C long term (1 year).
Can undergo 2 freeze/thaw cycles without significant loss of activity.

Cleavage protocol: A protease/target protein ratio (w/w) of 1:200 to 1:10 should provide an effective range for over 95% cleavage of most target proteins. The optimal ratio and cleavage temperature should be determined empirically. A good starting point is a ratio of 1:100 (1 ug TEV protease for 100 ug of target protein) incubated for 16 hours at 4 °C for > 80% cleavage. TEV protease, as supplied, can be directly added to the target protein.

Protein sequence

GHHHHHHHGESLFKGP RDYNPISSTICHLT NESDGHTTSLYGIGFGPFIITNKHLF
RRNNGTLLVQSLHGVFKVKNTTTLQQHLIDGRDMIIRMPKDFPPFPQKLKREP
QREERICLVTTNFQTKSMSSMVSDT SCTFPSSDGIFWKHWIQTKDGGQCGSPLV
STRDGFIVGIHSASNFTNTN NYFTSVPKNFMELLTNQEAQQWVSGWRLNADSV
LWGGHKVFMVKPEEPFQPVKEATQLMNR RRRR



This product is suitable for laboratory research use only and is not intended for any diagnostic or therapeutic use



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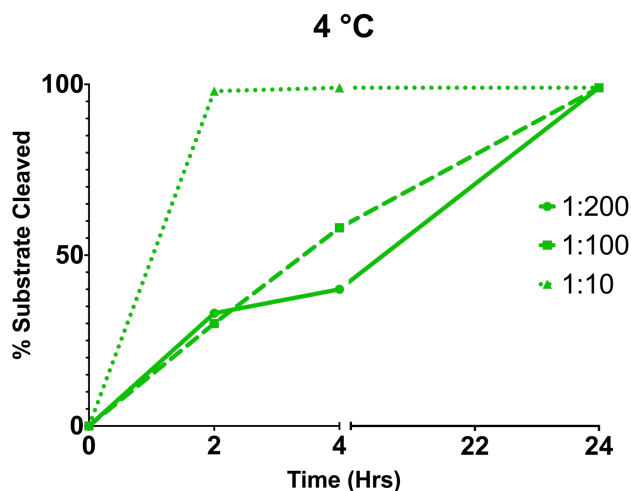
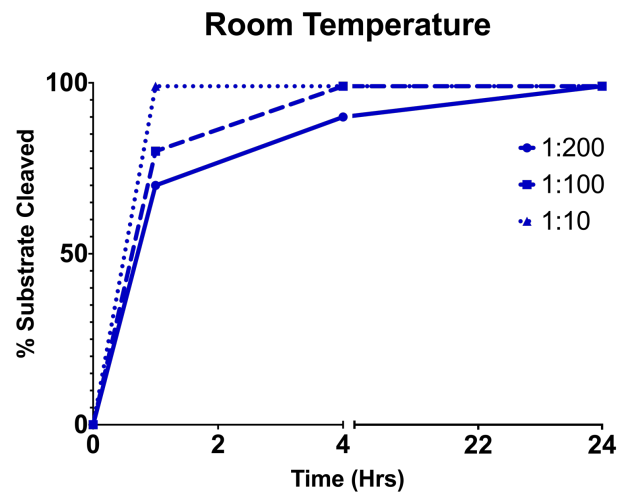
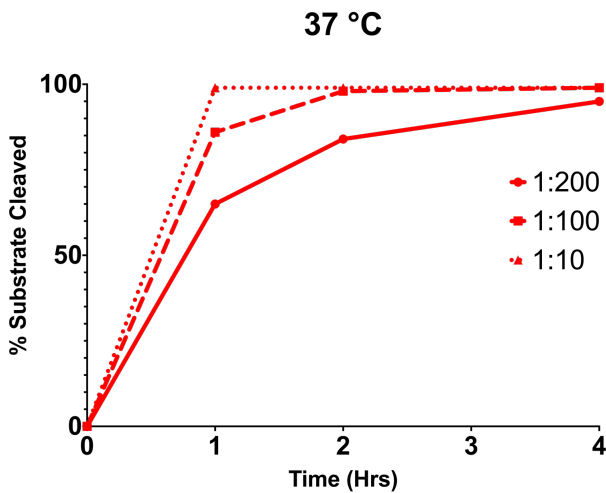
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Activity Assays



Temperature	Dose	1 h	2 h	4 h	24 h
37 °C	1:200	65%	84%	95%	n.d.
	1:100	86%	98%	99%	n.d.
	1:10	99%	99%	99%	n.d.
RT	1:200	70%	80%	n.d.	99%
	1:100	80%	99%	n.d.	99%
	1:10	99%	99%	n.d.	99%
4 °C	1:200	n.d.	33%	40%	99%
	1:100	n.d.	30%	58%	99%
	1:10	n.d.	98%	99%	99%

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