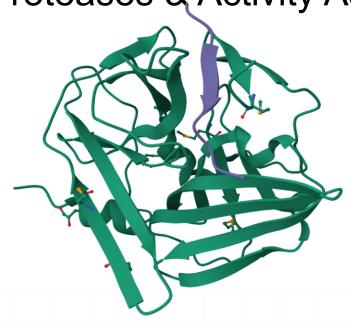


Aurora Biolabs TEV Proteases & Activity Assay Kit



Aurora Biolabs LLC 7270 Trade St. Ste. 103 San Diego, CA 92121 Tel: 858-215-4510



Why Choose Aurora Biolabs TEV Proteases & Activity Assay Kit?

Proven Track Record in Recombinant Protein Production

Aurora Biolabs has been manufacturing cyrstallography-grade recombinant proteins for drug discovery and optimization since 2007. Our recombinant proteins are known for:

- Batch-to-Batch Consistency
- Stringent Quality Control Tests
- Protein Purity: >95%, >98%, >99%
- Bioactivity: ED50 = 0.1-1.0 ng/mL
- Endotoxin: <1 EU or <0.1 ng/mL (LAL method)</p>
- Mycoplasma Free
- ISO/IEC 17025/2017 Certified

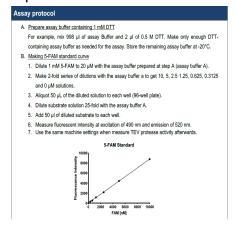
Proven Track Record in Fluorescence Assays

Aurora Biolabs has been developing and manufacturing fluorescence and TR-FRET assays since 2007 to support drug discovery and optimization efforts. Our fluorescence assays are known for:

 Convenience: All reagents & rxn plate included.

Components			
Catalog number	Item	Amount	Storage
190001B	Assay buffer	25 mL	-20°C
190001	Purified TEV protease	4 μg X 2 vials	-80°C
190001F	Fluorogenic substrate	200 µL	-80°C
190001S	5-FAM standard (1 mM)	10 µL	-80°C
	96-well microplate, black	1	Room temperature

 Proven Procedure: Optimized step-by-step protocols provided.



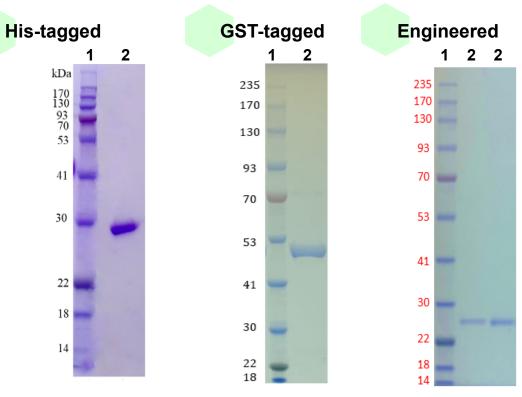
Unparalleled Technical Support

Our assay scientists and developers have decades of experience working on assays for drug discovery and optimization. Assay-related issues are quickly answered and resolved by the same scientists and developers, who have intimate and expert knowledge on the assays and can address any issues with speed and accuracy.

Aurora Biolabs TEV Proteases

Recombinant proteins are often expressed with affinity tags for purification. The removal of these tags is often desired to restore the proteins to their native state and functionality. Tobacco Etch Virus (TEV) protease is ideal amino acid scissors for this purpose. TEV is a highly sequence-specific protease that recognizes 7-amino acid sequence Glu-Asn-Leu-Tyr-Phe-Gln-Gly/-Ser and cleaves between Gln-Gly/-Ser.

Aurora Biolabs has been manufacturing highly pure recombinant proteins since 2007. Aurora Biolabs currently has three TEV protease products: 1) His-tagged TEV, 2) GST-tagged TEV, and 3) Engineered TEV AB. His-tagged and GST-tagged TEVs are tagged with 6x histidines and glutathione s-transferase, respectively. TEV AB is an engineered TEV protease with enhanced protease activity.



SDS PAGE pictures of purified his-tagged, GST-tagged, and engineered TEV proteases. Lane 1: molecular marker. Lane 2: TEV proteases.

Aurora Biolabs TEV Activity Assay Kit

The TEV Protease Activity Assay kit is a fluorogenic-based assay for measuring TEV protease activity. The kit contains a TEV protease substrate that is labeled with fluorophore FAM and a quencher. Proteolytic activity of TEV protease cleaves the substrate and releases FAM, resulting in the production of bright fluorescence, which can be measured using a fluorescence reader at ex/em of 490 nM/520 nm. TEV protease activity then can be calculated in accordance with the fluorescence intensity. Purified TEV protease is included in the kit as a positive control.

Assay Nuts and Bolts

