

# PRODUCT DATA SHEET



## BML-SE554 Procathepsin V (human), (recombinant) (His-tag)

[Cathepsin L2]

### Product Number/Sizes

BML-SE554-0010 10 µg

### Product Specifications

MW: ~37kDa (SDS-PAGE)  
PURITY: ≥90%  
FORMULATION: Liquid. In 25mM TRIS-HCl, pH 8.0, containing 100mM sodium chloride, 0.05% Tween-20 and 10% glycerol.  
SPECIFIC ACTIVITY: 436 U/µg protein. One unit will hydrolyze one pmole Z-Leu-Arg-AMC substrate (Prod. No. BML-P229, 25 µM) per minute at 25°C, in 25mM NaOAc pH 5.5, 100mM NaCl, 1.0mM DTT.  
EC: 3.4.22.38  
SOURCE/HOST: Produced in insect cells.  
APPLICATION: Study enzyme kinetics, cleave target substrates and screen for inhibitors.  
SHIPPING: SHIPPED ON DRY ICE  
LONG TERM STORAGE: -80°C  
USE/STABILITY: Avoid extended periods unfrozen. This enzyme is stable for 6 months when stored as received under the above conditions.  
HANDLING: After opening, prepare aliquots and store at -80°C. Avoid freeze/thaw cycles.

### Product Description

Recombinant glycosylated procathepsin V cloned from human cDNA and purified as full-length proenzyme. Can be activated in one step. Cathepsin V, a member of the papain family of cysteine proteases, has 78% identity to cathepsin L, but unlike cathepsin L is not widely expressed, being localized to thymus, testis, corneal epithelium, and macrophages. It is a strong elastase, also cleaving proteins such as the invariant chain (Ii), plasminogen, and kininogen. It is implicated in disease states such as cancer, angiogenesis, atherosclerosis, and myasthenia gravis.

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### NORTH/SOUTH AMERICA

ENZO LIFE SCIENCES INTERNATIONAL, INC.  
5120 Butler Pike  
Plymouth Meeting, PA 19462-1202  
USA  
T 1-800-942-0430/(610) 941-0430  
F (610) 941-9252  
E info-usa@enzolifesciences.com

### SWITZERLAND & REST OF EUROPE

ENZO LIFE SCIENCES AG  
Industriestrasse 17, Postfach  
CH-4415 Lausen  
Switzerland  
T +41/0 61 926 89 89  
F +41/0 61 926 89 79  
E info-ch@enzolifesciences.com  
www.enzolifesciences.com

### GERMANY

ENZO LIFE SCIENCES GMBH  
Marie-Curie-Strasse 8  
DE-79539 Lörrach  
Germany  
T +49/0 7621 5500 526  
Toll Free 0800 664 9518  
F +49/0 7621 5500 527  
E info-de@enzolifesciences.com  
www.enzolifesciences.com

### BENELUX

ENZO LIFE SCIENCES BVBA  
Melkerijweg 3  
BE-2240 Zandhoven  
Belgium  
T +32/0 3 466 04 20  
F +32/0 3 466 04 29  
E info-be@enzolifesciences.com  
www.enzolifesciences.com

### UK & IRELAND

ENZO LIFE SCIENCES (UK) LTD.  
Palatine House  
Matford Court  
Exeter EX2 8NL  
UK  
T 0845 601 1488 (UK customers)  
T +44/0 1392 825900 (from overseas)  
F +44/0 1392 825910  
E info-uk@enzolifesciences.com  
www.enzolifesciences.com

### FRANCE

ENZO LIFE SCIENCES  
c/o Covalab s.a.s  
13, Avenue Albert Einstein  
FR-69100 Villeurbanne  
France  
T +33 472 440 655  
F +33 437 484 239  
E info-fr@enzolifesciences.com  
www.enzolifesciences.com

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**MATERIAL SAFETY DATA:** This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet.

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