



$$\frac{1}{V_0} = \frac{K_m}{V_{max}[S]} + \frac{1}{V_{max}}$$



Enzymes

Discover the power of innovation with Leadgene's portfolio of enzymes for molecular biology and protein engineering. Our expert and skilled team develops and manufactures all products in-house, guaranteeing premium quality for your research needs.

In Vitro Transcription

Product	Cat. No.	Description
Inorganic Pyrophosphatase (Yeast)	LDG0007RI	Accelerating reaction of in vitro transcription

Reverse Transcription

Product	Cat. No.	Description
M-MLV Reverse Transcriptase	LDG0006RF	Synthesizing cDNA first strands from RNA templates
M-MLV Reverse Transcriptase (Glycerol-Free)	LDG0011RF	
HIV-1 Reverse Transcriptase	LDG0022RF	

Molecular Cloning

Product	Cat. No.	Description
Hot Start Taq DNA Polymerase (Glycerol-Free)	LDG0010RF	Catalyzing DNA elongation in hot-start PCR
Hot Start Taq DNA Polymerase (Chemical Modified)	LDG0037RF	
Bst DNA Polymerase (Glycerol-Free)	LDG0012RF	Catalyzing DNA elongation in isothermal PCR
Bst DNA Polymerase	LDG0021RF	

PCR Master Mix

Enzyme Set	Cat. No.	Description
EffiStart™ 2X Probe qPCR Master Mix	LDG0029RF	Designed for real-time qPCR, featuring Hot Start Taq DNA Polymerase for probe-based detection
EffiStart™ 2X Probe qPCR Master Mix (Glycerol-Free)	LDG0031RF	
EffiStart™ 5X Probe qPCR Master Mix (Glycerol-Free)	LDG0032RF	
EffiStart™ 2X One-Step Probe RT-qPCR Master Mix	LDG0033RF	Designed for one-step RT-qPCR, featuring Hot Start Taq DNA Polymerase for probe-based detection
EffiStart™ 5X One-Step Probe RT-qPCR Master Mix	LDG0034RF	
EffiStart™ 2X One-Step Probe RT-qPCR Master Mix (Glycerol-Free)	LDG0035RF	
EffiStart™ 5X One-Step Probe RT-qPCR Master Mix (Glycerol-Free)	LDG0036RF	
StablePlus™ 2X Colorimetric RT-LAMP Master Mix	LDG0024RF	For reverse-transcription loop-mediated isothermal amplification (RT-LAMP) reactions
StablePlus™ 2X Fluorescent RT-LAMP Master Mix	LDG0026RF	An optimized master mix for reverse-transcription loop-mediated isothermal amplification (RT-LAMP) reactions, nucleic acid stabilizing agent to protect the amplified products
StablePlus™ 2X RT-LAMP Master Mix	LDG0023RF	
2X RT-LAMP Master Mix	LDG0019RF	
2X Colorimetric RT-LAMP Master Mix	LDG0020RF	An optimized master mix for reverse-transcription loop-mediated isothermal amplification (RT-LAMP) reactions
2X Fluorescent RT-LAMP Master Mix	LDG0025RF	a ready-to-use solution for PCR reactions, featuring a high extension speed of approximately 3-4 kb per minute
5X Taq PCR Master Mix	LDG0009RF	
LEADSPHERE® One-Step RT-PCR Master Mix	LDG0027RF	Containing essential components, ensuring reliable RT-PCR, saving setup time, reducing contamination risks, and allowing for room-temperature shipment and storage.

Bioprocessing

Enzyme Set	Cat. No.	Description
LEADSPHERE® Proteinase K	LDG0001RG	Digesting proteins and inactivating ribonuclease for nucleic acid sample preparation
HRV 3C Protease	LDG0009RG	Cleaving HRV 3C linker: LEVLFQ↓GP
UniHRV 3C Protease	LDG0010RG	
SUMO Protease (ULP1) (Active)	LDG0014RG	Cleaving the bond between the SUMO tag and the protein of interest
SUMO-Specific Protease 2 (SEN2)	LDG0015RG	Recognizing SUMO tertiary structure and cleaves at the C-terminal end of the Gly–Gly sequence in SUMO
LeadGMP® PNGase F	LDG004R-GMP	Cleaving between the sugar chains and asparagine residues of glycoproteins, enabling the study of protein structure and function, particularly in glycosylation research
PNGase F	LDG0017RG	
LeadGMP® Endoglycosidase H (Endo H)	LDG002R-GMP	Cleaving asparagine-linked oligomannose and hybrid from N-linked glycoproteins
Endoglycosidase H (Endo H)	LDG0002RG	
Colipase	LDG0011RG	A co-enzyme that is required for the activity of pancreatic lipase
Alpha-1,3-mannosidase	LDG0026RG	Catalyzing the hydrolysis of α -1,3-mannosidic linkages in glycoproteins and glycolipids
Alpha-2,3-sialidase	LDG0024RG	Cleaves sialic acid residues linked to glycoproteins or glycolipids via an α -2,3 linkage
Nuclease	LDG0006RG	Degrading all forms of DNA and RNA over a wide temperature and pH range
HRV 3C Protease ELISA Kit	LDG00017E	LoD: 0.057 ng/mL; LoQ: 0.19 ng/mL; Assay Range: 1.5625-100 ng/mL
SUMO Protease (ULP1) ELISA Kit	LDG00019E	LoD: 0.0135 ng/mL; LoQ: 0.0451 ng/mL; Assay Range: 1.5625-100 ng/mL
TEV Protease ELISA Kit	LDG00020E	LoD: 0.068 ng/mL; LoQ: 0.230 ng/mL; Assay Range: 1.5625-100 ng/mL
Nuclease ELISA Kit	LDG00021E	LoD: 0.062 ng/mL; LoQ: 0.163 ng/mL
T7 RNA Polymerase ELISA Kit	LDG00024E	LoD: 0.037 ng/mL; LoQ: 0.124 ng/mL; Assay Range: 0.15625-10 ng/mL
Enterokinase ELISA Kit	LDG00026E	LoD: 0.007 ng/mL; LoQ: 0.032 ng/mL