

Amidases

EUCODIS amidases belong to the family of hydrolases, acting on carbon- nitrogen bonds other than peptide bonds, specifically in linear amides.

Enzyme	Catalogue #	Characteristics	Sales Unit
Amidase	EAM01	from <i>Pseudomonas aeruginosa</i> , recombinant	100 mg – 1g, bulk
Amidase	EAM02	from <i>Rhodococcus</i> sp., recombinant	100 mg – 1g, bulk

Isoamylase

EUCODIS isoamylase belongs to the family of carbohydrases acting specifically on α -1,6-glucosidic branch linkages in carbohydrates like amylopectin or glycogen.

Enzyme	Catalogue #	Characteristics	Sales Unit
Isoamylase	EIA01	from <i>Pseudomonas</i> sp., recombinant (≥ 3 MU/mg protein)	1 MU – 5 MU, bulk

Proteinases/Peptidases

Enzyme	Catalogue #	Characteristics	Sales Unit
Trypsin	ETR0001	expressed in <i>Pichia pastoris</i> , recombinant (>3800 U/mg protein)	100 mg – 1g, bulk
Carboxypeptidase Y	ECPY001	from <i>S. cerevisiae</i> , recombinant	100 mg – 1g, bulk

Lipase Suicide Inhibitors

EUCODIS lipase suicide inhibitors can be utilized to determine lipase and hydrolase activity, even in complex protein mixtures. The molar amount of enzyme can be determined by active site titration experiments.

	Catalogue #	Characteristics	Sales Unit
Methyl 4-nitrophenyl hexyl phosphonate	ESIC01	chromogenic substrates for determination of active sites in lipases	10 mg
Butyl 4-nitrophenyl hexyl phosphonate	ESIC02		10 mg
Octyl 4-nitrophenyl hexyl phosphonate	ESIC03		10 mg
Methyl 4-methylumbelliferyl hexyl phosphonate	ESIF01	fluorogenic substrate for determination of active sites in lipases	2 mg

EUCODIS CUSTOM ENZYME SERVICE – Tailored Biocatalysis

Target enzymes can be supplied in industrial grade, in bulk kilogram quantities at short notice. Further upscaling is done on a contract basis.

- Enzyme identification and screening services
- Development and optimization of biocatalytic steps
- Enzyme engineering and evolution
- Enzyme production strain development (*E.coli*, *Bacillus*, *Pichia*, *Aspergillus*)
- Bioprocess development and enzyme production upscale (non-GMP)
- Industrial enzyme manufacturing (under ISO 9001:2015)



EUCODIS is an established enzyme engineering and manufacturing company headquartered in Vienna, Austria. EUCODIS delivers high-performance enzyme solutions for special applications in biopharma, fine chemicals and cosmetics industry.

EUCODIS also provides custom services, ranging from individual enzyme development and evolution, strain and process development to routine protein manufacturing up to the kg scale.

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› Lipases

EUCODIS lipases belong to the family of esterases and naturally act on triglycerides at lipid water interfaces. Lipases/esterases can be used as versatile tools in hydrolytic reactions, esterifications and transesterification reactions in industrial and food applications.

Enzyme	Catalogue #	Characteristics	Sales Unit
Lipase Kit	EL Kit	25 unique EUCODIS lipases, recombinant, contains EL001, EL003, EL004, EL006, EL008, EL009, EL012, EL013, EL014, EL015, EL016, EL017, EL020, EL030, EL031, EL032, EL037, EL038, EL044, EL056, EL064, EL065, EL067, EL068, EL070, also available separately, see below for examples	200 mg or 1 g each
EUCODIS Lipase 003 EUCODIS Lipase 014	EL003 EL014	resolution of chiral alcohols, see Tetrahedron: Asymmetry, 23 (2012), 583–586	100 mg – 1 g, bulk
EUCODIS Lipase 012 EUCODIS Lipase 070	EL012 EL070	high temp stability, oil processing, transesterification resolution of chiral alcohols, see Tetrahedron: Asymmetry, 23 (2012), 583–586	100 mg – 1 g, bulk
EUCODIS Lipase 013	EL013	fatty acid transesterification, resolution of chiral alcohols, see Tetrahedron: Asymmetry, 23 (2012), 583–586	100 mg – 1 g, bulk
<i>Y. lipolytica</i> Lipase	ELYL01	from <i>Yarrowia lipolytica</i>	100 mg – 1 g, bulk
<i>C. rugosa</i> Lipases	ELCR01 ELCR02 ELCR03	CRL 1, CRL 2, CRL 3 from <i>Candida rugosa</i>	100 mg – 1 g, bulk
EUCODIS CalB01 EUCODIS CalB02	ELCB01 ELCB02	engineered variants of <i>Candida antarctica</i> Lipase B	100 mg – 1 g, bulk

› Immobilized Lipases

Enzyme	Catalogue #	Characteristics	Sales Unit
Immobilized Lipase Kit	ELIM Kit	7 unique immobilized EUCODIS Lipases, each immobilized by adsorption and covalent binding: CalB01, CalB02 and EL012, EL020, EL030, EL067, EL070; Also available separately	200 mg or 1 g each
EUCODIS CalB01 EUCODIS CalB02	ELCB01IA ELCB02IA	immobilized by adsorption on hydrophobic carrier	1 g – 1 kg, bulk
EUCODIS Lipase 070	EL070IA	immobilized by adsorption on hydrophobic carrier	1 g – 1 kg, bulk
EUCODIS CalB01 EUCODIS CalB02	ELCB01ICE ELCB02ICE	covalent immobilization on hydrophobic carrier	1 g – 1 kg, bulk
EUCODIS Lipase 070	EL070ICE	covalent immobilization on hydrophobic carrier	1 g – 1 kg, bulk

Lipase Service on request:

- › Enzyme screening service: screening of your substrate against our library
- › Development of lipase formulations tailored to your application
- › EUCODIS Lipases can be immobilized for easy recovery and repeated use in continuous batch reactors

› Beta-Lactamases

LacBuster™ is a broad range beta-lactamase formulation with activity towards penicillins, 4th and 5th generation cephalosporins and carbapenems, recombinant from *E. coli*.

Sterility Tests	Catalogue #	Formulation	Enzymatic Activity	Sales Unit (IU beta-lactamase II)
LacBuster™ - L	EB008.1	sterile liquid	beta-lactamase I & II	10 x 1000 IU (10 ml)
LacBuster™ - S	EB006.1	sterile freeze dried powder, sterilized by gamma irradiation	beta-lactamase I & II	10 x 50 IU
LacBuster™ - S	EB006.2			1 x 2000 IU, bulk

Penase/Penicillinase from *B. cereus*, recombinant from *E. coli*.

Sterility Tests	Catalogue #	Formulation	Enzymatic Activity	Sales Unit (IU beta-lactamase I)
Penase	EB002.1	freeze dried powder	beta-lactamase I	1 x 3300 IU

Environmental Monitoring

Settle and Contact Plates with EUCODIS beta lactamase formulations are available via other suppliers in cooperation with EUCODIS. Please inquire for more details.

› Catalases

EUCODIS catalase for complete H₂O₂ neutralization in agar plates for environmental monitoring

Enzyme	Catalogue #	Characteristics	Sales Unit
Catalase	ECAT001	patent protected catalase formulation	bulk

› Peroxidases

EUCODIS peroxidases can be utilized as enzymes catalyzing e. g. aromatic ring hydroxylation, epoxidation, halogenation, N- or S-oxidation, ether cleavage, alcohol/aldehyde oxidation reactions and N-demethylation. EUCODIS peroxidases catalyze reactions similar to cytochrom P450 enzymes but without the need for co-factor recycling and using hydrogen peroxide as co-substrate.

Enzyme	Catalogue #	Characteristics	Sales Unit
Peroxidase Kit	EP Kit	8 peroxidases of bacterial, fungal and plant origin, recombinant	8 x 100 mg – 1g, bulk

› Phospholipases D

EUCODIS phospholipases D can be used as versatile tools in hydrolysis and transphosphatidylolation of phospholipids for pharma, chemical and food applications.

Enzyme	Catalogue #	Characteristics	Sales Unit
Phospholipase Kit	EPLD Kit	4 unique EUCODIS PLDs; recombinant, contains EPLD027, EPLD029 and EPLD040 (from <i>Streptomyces</i> sp.) and EPLD028 (from <i>Rhodococcus</i> sp.), also available separately	100 mg – 1g, bulk
Phospholipase D 40	EPLD040	from <i>Streptomyces antibioticus</i> , recombinant	100 mg – 1g, bulk

› Nitrile Hydratases

EUCODIS nitrile hydratases can be utilized to convert nitriles into their corresponding amides. Currently nitrile hydratases are used for the production of acrylamide from acrylonitrile. Additional applications are e. g. in the removal of nitriles from industrial waste water.

Enzyme	Catalogue #	Characteristics	Sales Unit
Nitrile hydratase Kit	ENH Kit	10 recombinant enzymes with different substrate specificities	100 mg – 1g, bulk