E-64-D

Calpain and cathepsin inhibitor

E-64-D is a cell-permeable ethyl ester of E-64-C (Prod. No. BML-PI106). The ester is hydrolyzed by intracellular esterases to produce E-64-C that inhibits calpain and cathepsins B, F, H, K, and L. E-64-D inhibits degradation of autophagic cargo inside autophagolysosomes, especially when used in combination with pepstatin (Prod. No. ALX-260-085). E-64-D combined with camostat mesylate also inhibits entry of SARS-CoV-2 in cells *in vitro*.

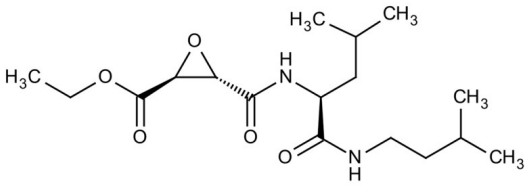
Citations: 41 View Online »

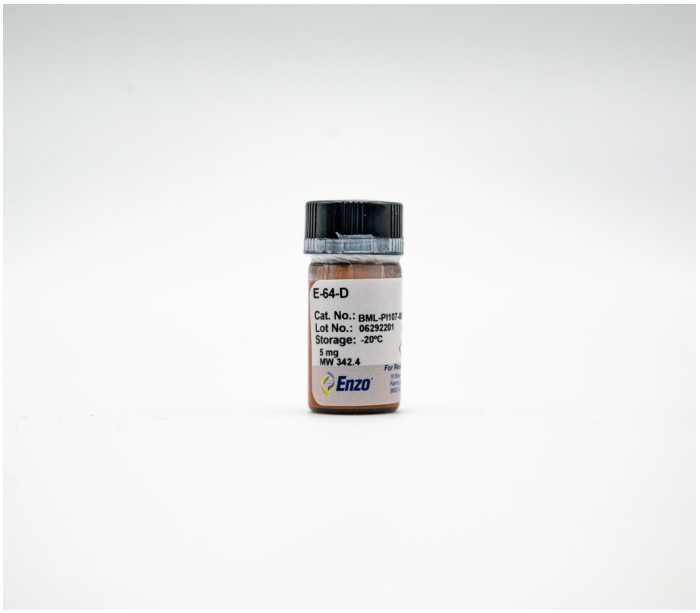
- Potent inhibitor of calpain and cathepsins
- Used in autophagy research
- highly cited

Ordering Information Order Online »

BML-PI107-0001	1mg
BML-PI107-0005	5mg

Manuals, SDS & CofA View Online »


H3C
CH3
O
H
N
H3C
O
O
O
O
CH3
N
H
CH3


E-64-D
Cat. No.: BML-PI107-0
Lot No.: 06292201
Storage: -20°C
5 mg
MW 342.4
Enzo

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Store, as supplied, at -20°C for up to 1 year. Store solutions at -20°C for up to 2 months.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	2S,3S-trans-(Ethoxycarbonyloxirane-2-carbonyl)-L-leucine-(3-methylbutyl) amide, Aloxistatin
Appearance	White solid.
CAS	88321-09-9
Couple Target	Calpain, Cathepsin, Protease
Couple Type	Inhibitor
Formula	$C_{17}H_{30}N_2O_5$
Identity	Identity determined by MS.
MW	342.4
Purity	≥98% (HPLC)
Solubility	Soluble in DMSO (20mg/ml) or 100% ethanol (>10mg/ml).
Source	Synthetic.

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com