**E-64d**

**ALTERNATE NAMES:** Aloxistatin; Loxistatin; ethyl (2S,3S)-3-[((2S)-4-methyl-1-(3-methylbutylamino)-1-oxopentan-2-yl)carbamoyl]oxirane-2-carboxylate; ethyl (+)-(2S,3S)-2,3-epoxy-N-((S)-1-(isopentylcarbamoyl)-3-methylbutyl)succinate; (2S,3S)-ethyl 3-((S)-1-(isopentylamino)-4-methyl-1-oxopentan-2-yl)carbamoyl]oxirane-2-carboxylate

**CATALOG #:**
- B3057-5  5 mg
- B3057-25  25 mg

**STRUCTURE:**

![Structure Diagram]

**MOLECULAR FORMULA:** C₁₇H₃₀N₂O₅

**MOLECULAR WEIGHT:** 342.43

**CAS NUMBER:** 88321-09-9

**APPEARANCE:** White to off-white solid powder

**PURITY:** ≥98%

**SOLUBILITY:** ~30 mg/ml in DMSO and DMF
~10 mg/ml in ethanol

**DESCRIPTION:** E-64d is a synthetic analog of E-64 which is a membrane permeable inhibitor of lysosomal and cytosolic cysteine proteases. It inhibits cathepsins B and L in intact lysosomes and cells. It (20-200 µg/ml) induces cell cycle arrest at the G2/M phase in A431 human epidermoid carcinoma cells. E-64d inhibits the entry of SARS-CoV-2 into Caco-2 cells in combination with Camostat mesylate.

**STORAGE TEMPERATURE:** -20ºC. Protect from air. Store under desiccating conditions.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCES:**

**RELATED PRODUCTS:**
- Dexamethasone (Cat. No. 1042)
- E-64 (Cat. No. 1739)
- Camostat mesylate (Cat. No. B2145)
- Leupeptin, hemisulfate (Microbial) (Cat. No. 1648)
- PMSF (Cat. No. 1548)

**DISCLAIMER:** FOR RESEARCH USE ONLY! Not to be used on humans.