

## E-64D

Cat. # P1051-5, P1051-25

**Also Known as:** Aloxistatin; E64D; E-64d

**Formula:**  $C_{17}H_{30}N_2O_5$

**MW:** 342.4 Da

**CAS No.:** 88321-09-9

**Source:** Synthetic

**Form:** Lyophilized Powder

**Solubility:** Soluble in DMSO

**Concentration:** N/A

**Quality Assurance:** > 98% by HPLC and NMR

**Description:** E-64D, ethyl ester of E-64c, is an irreversible and cell permeable inhibitor of lysosomal and cytosolic cysteine proteases. E-64D inhibits calpain and the cysteine proteases cathepsins F, K, B, H, and L. It also inhibits degradation of autophagic cargo inside autophagolysosomes.

Preparing stock solution in DMSO up to 10 mg/ml. Typical working concentration range is 1 - 10  $\mu$ M.

**Storage:** Eligible for room temperature shipping. Store at -20°C upon receiving; avoid multiple freeze-thaw cycles after dissolving in DMSO.

**Literature:** 1. McGowan, E.B., et al. 1989. Biochem. Biophys. Res. Commun. 158: 432.