

Product Name	: Calpain Inhibitor XII
Synonyms	: —
Cat No.	: M33772
CAS Number	: 181769-57-3
Molecular Formula	: C ₂₆ H ₃₄ N ₄ O ₅
Formula Weight	: 482.57
Chemical Name	: —
Description	: (Rac)-Calpain Inhibitor XII is a reversible and selective inhibitor of calpain I (μ-calpain, K _i =19 nM). (Rac)-Calpain Inhibitor XII has lower affinities for calpain II (m-calpain, K _i =120 nM) and cathepsin B (K _i =750 nM). (Rac)-Calpain Inhibitor XII has the potential for studying the role of calpains in diverse processes, including neutrophil chemotaxis, neuronal signaling, and cardiac response to injury.
Pathway	: Proteasome/Ubiquitin
Target	: Cysteine Protease
Receptor	: Cysteine Protease
Solubility	: In Vitro: ?DMSO : 16 mg/mL (33.16 mM)
SMILES	: <chem>O=C(OCC=1C=CC=CC1)NC(C(=O)NC(C(=O)C(=O)NCC2=NC=CC=C2)CCC)CC(C)C</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Z Li, et al. Novel peptidyl alpha-keto amide inhibitors of calpains and other cysteine proteases. J Med Chem. 1996 Sep 27;39(20):4089-98.?