

# AT-406 (SM-406)

Cat. # 7170-5, F7170-25

**Also Known as:** (5S,8S,10aR)-N-benzhydryl-5-((S)-2-(methylamino)propanamido)-3-(3-methylbutanoyl)-6-oxo-decahydropyrrolo[1,2-a][1,5]diazocine-8-carboxamide

**Formula:** C<sub>32</sub>H<sub>43</sub>N<sub>5</sub>O<sub>4</sub>

**MW:** 561.71 Da

**CAS No.:** CAS# 1071992-99-8

**Source:** Synthetic

**Form:** Lyophilized powder

**Solubility:** Soluble in DMSO or EtOH ( ~50 mg/mL)

**Concentration:** N/A

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

**Description:** AT-406 (also called SM-406) is a potent Smac mimetic that inhibits the ubiquitin ligase activity of inhibitors of apoptosis proteins XIAP, cIAP1 and cIAP2 with Ki values of 66.4, 1.9 and 5.1 nM, respectively. AT-406 induces apoptosis of various human cancer cell lines.

**Storage:** Eligible for room temperature shipping. Store at -20°C or -80°C upon receiving; protect from air and light.

**How to use** AT-406 is used at ~ 1 uM in various cell-based assays.

**Literature:**

1. Cai Q., et al. (2011) J. Med. Chem. 54, 2714.
2. Brunckhorst M. K., et al. (2012) Cancer Biol. Ther., 13, 804.

