

Cat No. 81-D36

AT13387



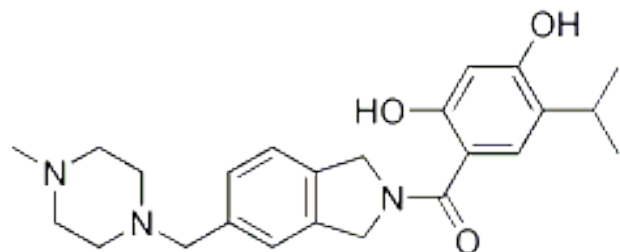
5 mg

For research purposes only

AT13387 is a synthetic, small-molecule inhibitor of heat shock protein 90 (Hsp90). It selectively binds to Hsp90, thereby inhibiting its chaperone function and promoting the degradation of oncogenic signaling proteins involved in tumor cell proliferation and survival. Hsp90, a chaperone protein upregulated in a variety of tumor cells, regulates the folding, stability and degradation of many oncogenic signaling proteins.

## TECHNICAL INFORMATION

## STORAGE AND HANDLING



**Storage:** Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

**Stability:** Stock solutions stable at -20°C for up to 2 years.

**Shipping Conditions:** Shipped at room temperature.

## PRODUCT USE

Soluble in DMSO. Soluble at 20mg/ml.

**Other Names:** (2,4-dihydroxy-5-propan-2-ylphenyl)-[5-[(4-methylpiperazin-1-yl)methyl]-1,3-dihydroisoindol-2-yl]methanone

**Chemical Formula:** C<sub>24</sub>H<sub>31</sub>N<sub>3</sub>O<sub>3</sub>

**CAS Number:** 912999-49-6

**PubChem Substance ID:** 11955716

**Molecular Weight:** 409.52

**Purity:** >99%

**Appearance:** Powder

**Solubility:** DMSO

**IC<sub>50</sub> :** 18nM

## REFERENCES

1. Smyth, T., et al. (2012). The HSP90 Inhibitor, AT13387, Is Effective against Imatinib-Sensitive and -Resistant Gastrointestinal Stromal Tumor Models. *Mol Cancer Ther.*
2. Graham, B., et al. (2012). The heat shock protein 90 inhibitor, AT13387, displays a long duration of action in vitro and in vivo in non-small cell lung cancer. *Cancer Sci.* 103:522-7.
3. Kang, M.H., et al. (2012). Initial testing (Stage 1) of At13387, an HSP90 inhibitor, by the pediatric preclinical testing program. *Pediatr Blood Testing.* 59:185-8.