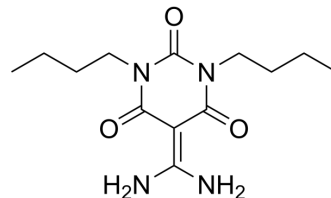


AH3960

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-15103 | | |
| CAS No.: | 862907-48-0 | | |
| Molecular Formula: | C ₁₃ H ₂₂ N ₄ O ₃ | | |
| Molecular Weight: | 282.34 | | |
| Target: | Androgen Receptor; Thyroid Hormone Receptor | | |
| Pathway: | Vitamin D Related/Nuclear Receptor | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (354.18 mM)
 * "≥" means soluble, but saturation unknown.

| Concentration | Mass | | |
|---------------|-----------|------------|------------|
| | 1 mg | 5 mg | 10 mg |
| 1 mM | 3.5418 mL | 17.7091 mL | 35.4183 mL |
| 5 mM | 0.7084 mL | 3.5418 mL | 7.0837 mL |
| 10 mM | 0.3542 mL | 1.7709 mL | 3.5418 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

AH3960 (compound 16c) is an antagonist of androgen receptor. AH3960 binds wild as well as T877 mutant type androgen receptors. AH3960 selectively inhibits T877 with an IC₅₀ value of 0.82 μM. AH3960 also serves as an agonist of parathyroid hormone receptor-1 (PTH1R)^{[1][2]}.

REFERENCES

[1]. Yamamoto S, et al. Design, synthesis, and biological evaluation of 4-arylmethyl-1-phenylpyrazole and 4-aryloxy-1-phenylpyrazole derivatives as novel androgen receptor antagonists. *Bioorg Med Chem*. 2012 Apr 1;20(7):2338-52.

[2]. Carter PH, et al. Actions of the small molecule ligands SW106 and AH-3960 on the type-1 parathyroid hormone receptor. *Mol Endocrinol*. 2015 Feb;29(2):307-21.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA