Eeyarestatin 1
Item No. 10012609

CAS Registry No.: 412960-54-4
Formal Name: 3-(4-chlorophenyl)-4-[[4-(4-chlorophenyl)amino][carbonyl] hydroxymine]-5,5-dimethyl-2-oxo-1-imidazolidineacetic acid 2-[3-(5-nitro-2-furanyl)-2-propen-1-yldene]hydrazone
MF: C_{34}H_{34}Cl_{2}N_{4}O_{7}
FW: 630.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 245, 285, 380 nm

Laboratory Procedures

For long term storage, we suggest that eeyarestatin 1 be stored as supplied at -20°C. It should be stable for at least two years.

Eeyarestatin 1 is supplied as a crystalline solid. A stock solution may be made by dissolving the eeyarestatin 1 in the solvent of choice. Eeyarestatin 1 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of eeyarestatin 1 in these solvents is approximately 30 mg/ml.

Eeyarestatin 1 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Terminally misfolded proteins, recognized by chaperones on the endoplasmic reticulum (ER), are transported to depots for ubiquitination and proteasomal degradation by the ER-associated protein degradation (ERAD) pathway. Eeyarestatin 1 is an inhibitor of the ERAD pathway, blocking the degradation of misfolded proteins at a dose of 8 μM. It associates with the p97-associated deubiquitinating complex in cells, preventing deubiquitination of substrates by ataxin-3. Eeyarestatin 1, at 4 μM, interferes with both retrograde and anterograde trafficking of proteins, including certain toxins, and potentially, viruses.4

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10012609

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to our email to your institution.

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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