Eeyarestatin 1
Item No. 10012609

CAS Registry No.: 412960-54-4
MF: C27H25Cl2N7O7
FW: 630.4
Purity: ≥98%
UV/Vis.: λmax: 245, 285, 380 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

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

Description

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.

References