**Product Name:** (5Z)-7-Oxozeaenol
**Catalog No.:** 3604
**Batch No.:** 3

**CAS Number:** 253863-19-3
**IUPAC Name:** (3S,5Z,8S,9S,11E)-3,4,9,10-tetrahydro-8,9,16-trihydroxy-14-methoxy-3-methyl-1H-2-benzoxacyclotetradecin-1,7(8H)-dione

### 1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C_{19}H_{22}O_{7}
- **Batch Molecular Weight:** 362.37
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 25 mM, ethanol to 10 mM
- **Storage:** Desiccate at -20°C
- **Batch Molecular Structure:**

![Molecular Structure](image)

### 2. ANALYTICAL DATA

- **HPLC:** Shows 98.0% purity
- **Mass Spectrum:** Consistent with structure
Product Name: (5Z)-7-Oxozeaenol

CAS Number: 253863-19-3
IUPAC Name: (3S,5Z,8S,9S,11E)-3,4,9,10-tetrahydro-8,9,16-trihydroxy-14-methoxy-3-methyl-1H-2-benzoazacyclotetradecin-1,7(8H)-dione

Description:
Resorcyclic lactone of fungal origin that acts as a potent and selective transforming growth factor-β-activated kinase 1 (TAK1) mitogen-activated protein kinase kinase kinase (MAPKKK) inhibitor (IC₅₀ = 8 nM). Displays > 33-fold and > 62-fold selectivity over MEKK1 and MEKK4 respectively. Inhibits IL-1-induced activation of NF-κB (IC₅₀ = 83 nM) and JNK/p38. Inhibits production of inflammatory mediators, and sensitizes cells to TRAIL- and TNF-α-induced apoptosis in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₉H₂₂O₇
Batch Molecular Weight: 362.37
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Desiccate at -20°C. This product is packaged under an inert atmosphere.
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO to 25 mM
ethanol to 10 mM
CAUTION - This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: