1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{15}\text{H}_{21}\text{NO}_6 \)

Batch Molecular Weight: 311.33

Physical Appearance: White solid

Solubility: water to 50 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

HPLC: Shows 98% purity

Mass Spectrum: Consistent with structure
Product Name: Domoic acid  
Catalog No.: 0269  
Batch No.: 30

CAS Number: 14277-97-5  
IUPAC Name: \((2S,3S,4R,5'R)-2\text{-Carboxy}-4\text{-}(5'\text{-carboxy-1'\text{-methyl-1Z,3E-hexadienyl})-3-pyrrolidineacetic acid}

**Description:**
Kainate receptor agonist. More potent and possibly more selective than kainate at kainate receptors, as demonstrated in electrophysiological studies.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** \(C_{16}H_{22}NO_6\)
- **Batch Molecular Weight:** 311.33
- **Physical Appearance:** White solid
- **Minimum Purity:** >95%

**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**
- water to 50 mM

**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).

**References:**

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use