**1. PHYSICAL AND CHEMICAL PROPERTIES**

- **Batch Molecular Formula:** $\text{C}_{11}\text{H}_{13}\text{NO}_{5}\cdot\frac{1}{4}\text{H}_{2}\text{O}$
- **Batch Molecular Weight:** 243.73
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM, water to 5 mM with gentle warming
- **Storage:** Desiccate at -20°C

![Batch Molecular Structure Image]

*(and enantiomer)*

**2. ANALYTICAL DATA**

- **TLC:** $R_f = 0.45$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
- **HPLC:** Shows >99.7% purity
- **$^1\text{H NMR}:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - Theoretical: Carbon 54.21, Hydrogen 5.58, Nitrogen 5.75
  - Found: Carbon 54.17, Hydrogen 5.82, Nitrogen 5.88
Description:
A competitive, non-transportable blocker of excitatory amino acid transporters (IC₅₀ values are 70, 6, and 6 μM for EAAT1, EAAT2 and EAAT3 respectively). Also inhibits EAAT4 and EAAT5 (Kᵢ values are 4.4 and 3.2 μM respectively). Displays high selectivity for EAATs over ionotropic and metabotropic glutamate receptors. Also available as part of the Excitatory Amino Acid Transporter Inhibitor Tocriset™.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₁H₁₀NO₅·¼H₂O
Batch Molecular Weight: 243.73
Physical Appearance: White solid
Minimum Purity: >98%

References: