1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C_{26}H_{30}N_{6}O_{3}
- **Batch Molecular Weight:** 474.55
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 20 mM
- **Storage:** Store at +4°C

2. ANALYTICAL DATA

- **HPLC:** Shows 98.9% purity
- **¹H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:** Carbon Hydrogen Nitrogen
  - Theoretical: 65.8, 6.37, 17.71
  - Found: 64.76, 6.03, 17.44

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

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**Product Name:** A 740003  
**Catalog No.:** 3701

**CAS Number:** 861393-28-4  
**IUPAC Name:** \(N\)-[[(Cyanooamino)(5-quinolinylamino)methylene]amino]-2,2-dimethylpropyl]-3,4-dimethoxybenzeneacetamide

**Description:**
A 740003 is a potent and selective P2X\(_7\) receptor antagonist (IC\(_{50}\) values are 18 and 40 nM for rat and human receptors respectively). Displays selectivity over a variety of P2X and P2Y receptors up to a concentration of 100 \(\mu\)M. Reduces nociception in animal models of persistent neuropathic and inflammatory pain. Also reduces neuroblastoma tumor growth in mice.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** \(C_{26}H_{30}N_{9}O_{3}\)
- **Batch Molecular Weight:** 474.55
- **Physical Appearance:** White solid
- **Minimum Purity:** \(\geq 97\%\)

**Storage:** Store at +4°C

**Solubility & Usage Info:**
DMSO to 20 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).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**