biotechne[®] TOCRIS

Certificate of Analysis

www.tocris.com

Product Name: A 740003

Catalog No.: 3701 Batch No.: 4

CAS Number: IUPAC Name:

Storage:

861393-28-4

N-[1-[[(Cyanoamino)(5-quinolinylamino)methylene]amino]-2,2-dimethylpropyl]-3,4-dimethoxybenzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

 $C_{26}H_{30}N_6O_3$ 474.55 White solid DMSO to 20 mM Store at +4°C

OMe NC Ω HN OMe

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 98.9% purity Consistent with structure Consistent with structure

	Carbon Hydrogen Nitrogen				
Theoretical	65.8	6.37	17.71		
Found	64.76	6.03	17.44		

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

biotechne[®] TOCRIS

Print Date: Sep 7th 2023

4

www.tocris.com

Product Name: A 740003

CAS Number: 861393-28-4

IUPAC Name:

N-[1-[[(Cyanoamino)(5-quinolinylamino)methylene]amino]-2,2-dimethylpropyl]-3,4-dimethoxybenzeneacetamide

Description:

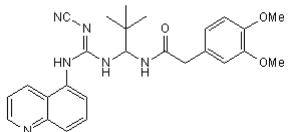
A 740003 is a potent and selective P2X₇ receptor antagonist (IC₅₀ values are 18 and 40 nM for rat and human receptors respectively). Displays selectivity over a variety of P2X and P2Y receptors up to a concentration of 100 μ M. Reduces nociception in animal models of persistent neuropathic and inflammatory pain. Also reduces neuroblastoma tumor growth in mice.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{26}H_{30}N_6O_3$ Batch Molecular Weight: 474.55 Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



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).

Catalog No.: 3701

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:

Amoroso *et al* (2015) The P2X7 receptor is a key modulator of the PI3K/GSK3β/VEGF signaling network: evidence in experimental neuroblastoma. Oncogene **34** 5240. PMID: 25619831.

Donnelly-Roberts *et al* (2009) Mammalian P2X7 receptor pharmacology: comparison of recombinant mouse, rat and human P2X7 receptors. Br.J.Pharmacol. **157** 1203. PMID: 19558545.

King (2007) Novel P2X₇ receptor antagonists ease the pain. Br.J.Pharmacol. **151** 565. PMID: 17471176.

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956