

Product Name: TC-P 262

Catalog No.: 4386

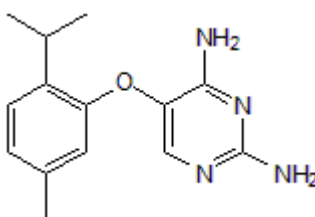
Batch No.: 1

CAS Number: 873398-67-5

IUPAC Name: 5-[5-Methyl-2-(1-methylethyl)phenoxy]-2,4-pyrimidinediamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₈N₄O
Batch Molecular Weight: 258.32
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.28 (Chloroform:Methanol [95:5])
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.09	7.02	21.69
Found	65.05	6.95	21.83

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

Product Name: TC-P 262

Catalog No.: 4386

Batch No.: 1

CAS Number: 873398-67-5

IUPAC Name: 5-[5-Methyl-2-(1-methylethyl)phenoxy]-2,4-pyrimidinediamine

Description:

Selective P2X₃ and P2X_{2/3} receptor antagonist (pIC₅₀ values are 7.39 and 6.68 respectively). Displays no detectable activity at P2X₁, P2X₂, P2X₄ and P2X₇ receptors (pIC₅₀ < 4.7).

Physical and Chemical Properties:

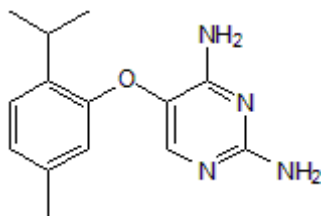
Batch Molecular Formula: C₁₄H₁₈N₄O

Batch Molecular Weight: 258.32

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Ballini et al (2011) Characterization of three diaminopyrimidines as potent and selective antagonists of P2X₃ and P2X_{2/3} receptors with in vivo efficacy in a pain model. *Br.J.Pharmacol.* **163** 1315. PMID: 21410458.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 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. 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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956