

Product Name: Pexacerfont

Catalog No.: 6451

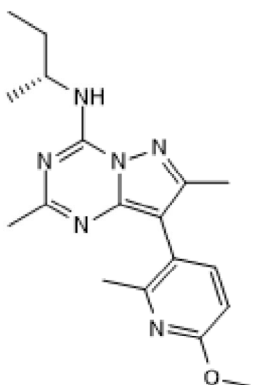
Batch No.: 3

CAS Number: 459856-18-9

IUPAC Name: 8-(6-Methoxy-2-methyl-3-pyridinyl)-2,7-dimethyl-N-[(1R)-1-methylpropyl]pyrazolo[1,5-a]-1,3,5-triazin-4-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₄N₆O.
Batch Molecular Weight: 340.43
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -28.6 (Concentration = 0.5, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.51	7.11	24.69
Found	63.55	7.27	24.92

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

Product Name: Pexacerfont

Catalog No.: 6451

3

CAS Number: 459856-18-9

IUPAC Name: 8-(6-Methoxy-2-methyl-3-pyridinyl)-2,7-dimethyl-N-[(1R)-1-methylpropyl]pyrazolo[1,5-a]-1,3,5-triazin-4-amine

Description:

Pexacerfont is a potent and selective corticotropin-releasing factor 1 receptor (CRF₁) antagonist (IC₅₀ = 6.1 nM). Displays >150 fold selectivity for CRF₁ over CRF_{2b}. Inhibits CRF-mediated adrenocorticotrophic hormone (ACTH) release from pituitary cell culture (IC₅₀ = 129 nM). Displays anxiolytic effects in rat behavioral paradigms.

Physical and Chemical Properties:

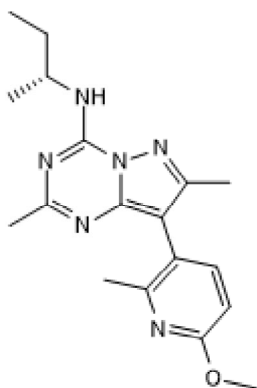
Batch Molecular Formula: C₁₈H₂₄N₆O.

Batch Molecular Weight: 340.43

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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. *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:

Gilligan *et al* (2009) Synthesis and structure-activity relationships of 8-(pyrid-3-yl)pyrazolo[1,5-a]-1,3,5-triazines: potent, orally bioavailable corticotropin releasing factor receptor-1 (CRF₁) antagonists. *J.Med.Chem.* **52** 3084. PMID: 19361209.

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