

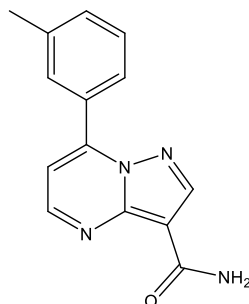
Catalog #10-3374

CU-CPT8m

CAS# 125079-83-6

7-(3-Methylphenyl)-pyrazolo[1,5-a]pyrimidine-3-carboxamide

Lot # S104121



CU-CPT8m is a potent and selective antagonist of toll-like receptor 8 (TLR8) acting via stabilization of the TLR8 homodimer.¹ It inhibits TNF α and IL-8 expression induced by the TLR8 agonist resiquimod at 1 μ M and suppresses TLR8-mediated proinflammatory signaling in various cell lines, human primary cells and patient specimens. It reverses phenotypes involved in TLR8-activating fibroblasts.² CU-CPT8m promotes erythroid cell proliferation and differentiation.³

- 1) Zhang *et al.* (2018), *Small-molecule inhibition of TLR8 through stabilization of its resting state*; Nat. Chem. Biol. **14** 58
- 2) Kong *et al.* (2024), *TLR8 aggravates skin inflammation and fibrosis by activating skin fibroblasts in systemic sclerosis*; Rheumatology (Oxford) **63** 1710
- 3) Liang *et al.* (2024), *Erythroid-intrinsic activation of TLR8 impairs erythropoiesis in inherited anemia*; Nat. Commun. **15** 5678

PHYSICAL DATA

Molecular Weight:	252.28
Molecular Formula:	C ₁₄ H ₁₂ N ₄ O
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (20 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com