

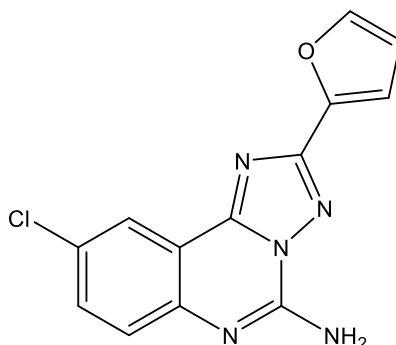
Catalog # 10-4907

CGS 15943

CAS# 104615-18-1

9-Chloro-2-(furan-2-yl)-[1,2,4]triazolo[1,5-c]quinazolin-5-amine

Lot # FBS5047



CGS 15943 is a potent adenosine receptor antagonist (IC_{50} s: A_1 = 21 nM; A_2 = 3.3 nM).^{1,2} It has also been reported to be an activator of the aryl hydrocarbon receptor (AhR; EC_{50} = 96 nM) with pro-apoptotic effects in mouse and human liver and triple negative breast cancer cells³ and in lung cancer cells⁴. CGS 15943 displayed cardiac anti-fibrotic activity *via* adenosine receptor-dependent activation of PI3K-AKT and YAP leading to reduction of both fibrotic gene expression and fibroblast activation.⁵

- 1) Francis *et al.* (1988), *Structure-Activity Profile of a Series of Novel Triazoloquinazoline Adenosine Antagonists*; J. Med. Chem. **31** 1014
- 2) Ghai *et al.* (1987), *Pharmacological characterization of CGS 15943A: a novel nonxanthine adenosine antagonist*; J. Pharmacol. Exp. Ther. **242** 784
- 3) O'Donnell *et al.* (2021), *Discovery and Mechanistic Characterization of a Select Modulator of AhR-regulated Transcription (SMAhRT) with Anti-cancer Effects*; Apoptosis **26** 307
- 4) Nguten and Kolluri (2026), *Genome-wide CRISPR screen reveals CGS-15943 induced heme-dependent cell death mediated by aryl hydrocarbon receptor in lung cancer cells*; Apoptosis **31** 204
- 5) Zhang *et al.* (2026), *Targeting and atypical G protein-coupled receptor signaling pathway for cardiac fibrosis therapy*; Science **393** eaej5896

PHYSICAL DATA

Molecular Weight:	285.69
Molecular Formula:	C ₁₃ H ₈ ClN ₅ O
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (10 mg/ml with warming)
Physical Description:	Off-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 3 months.

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