

Product Name: TC-S 7009

Catalog No.: 5243

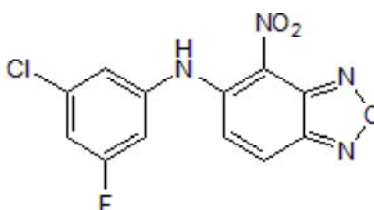
Batch No.: 2

CAS Number: 1422955-31-4

IUPAC Name: *N*-(3-Chloro-5-fluorophenyl)-4-nitro-2,1,3-benzoxadiazol-5-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₂ H ₆ ClFN ₄ O ₃
Batch Molecular Weight:	308.65
Physical Appearance:	Yellow solid
Solubility:	DMSO to 100 mM
Storage:	Store at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.38 (Ethyl acetate:Petroleum ether [15:85])
HPLC:	Shows 99.4% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	46.7	1.96	18.14
Found	46.57	1.9	18.17

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

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Description:

TC-S 7009 is a high affinity and selective HIF-2 α inhibitor (K_d = 81 nM). Binds to the HIF-2 α PAS-B domain; disrupts HIF-2 α -ARNT heterodimerization. Exhibits >60-fold selectivity for HIF-2 α over HIF-1 α . Decreases HIF-2 α DNA-binding and attenuates expression of HIF-2 α target genes in vitro.

Physical and Chemical Properties:

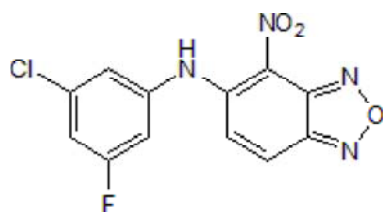
Batch Molecular Formula: C₁₂H₆ClFN₄O₃

Batch Molecular Weight: 308.65

Physical Appearance: Yellow solid

Minimum Purity: \geq 99%

Batch Molecular Structure:



References:

Wu et al (2019) Bidirectional modulation of HIF-2 activity through chemical ligands. *Nat.Chem.Biol.* **15** 367. PMID: 30804532.

Rogers et al (2013) Development of inhibitors of the PAS-B domain of the HIF-2 α transcription factor. *J.Med.Chem.* **56** 1739. PMID: 23363003.

Scheuermann et al (2013) Allosteric inhibition of hypoxia inducible factor-2 with small molecules. *Nat.Chem.Biol.* **9** 271. PMID: 23434853.

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.

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