

Certificate of Analysis

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Product Name: R 7050

Catalog No.: 5432

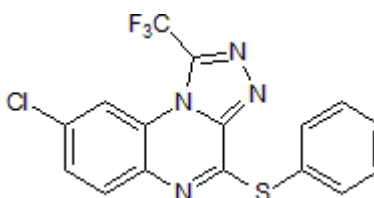
Batch No.: 1

CAS Number: 303997-35-5

IUPAC Name: 8-Chloro-4-(phenylthio)-1-(trifluoromethyl)-[1,2,4]triazolo[4,3-a]quinoxaline

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₈ClF₃N₄S
Batch Molecular Weight: 380.77
Physical Appearance: Yellow solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.47	2.12	14.71
Found	50.54	2.08	14.66

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

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Description:

Inhibitor of TNF- α receptor 1 (TNFR1) signaling; blocks TNFR1 association with TRADD and RIP1. Inhibits TNF- α -induced NF- κ B and MAPK signaling pathway activation. Attenuates intracerebral hemorrhage-induced neurovascular injury in mice.

Physical and Chemical Properties:

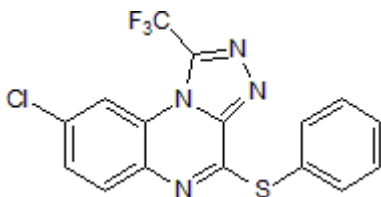
Batch Molecular Formula: C₁₆H₈ClF₃N₄S

Batch Molecular Weight: 380.77

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 20 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.

References:

Gururaja et al (2007) A class of small molecules that inhibit TNF α -induced survival and death pathways via prevention of interactions between TNF α RI, TRADD, and RIP1. *Chem.Biol.* **14** 1105. PMID: 17961823.

King et al (2013) TNF- α receptor antagonist, R-7050, improves neurological outcomes following intracerebral hemorrhage in mice. *Neurosci.Lett.* **542** 92. PMID: 23499961.

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