

# **Certificate of Analysis**

Print Date: Nov 24th 2025

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Product Name: R 7050 Catalog No.: 5432 Batch No.: 2

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:** C<sub>16</sub>H<sub>8</sub>CIF<sub>3</sub>N<sub>4</sub>S

Batch Molecular Weight: 380.77

Physical Appearance: Yellow/orange solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C

**Batch Molecular Structure:** 

$$F_3C$$
 $N$ 
 $N$ 
 $N$ 
 $N$ 

### 2. ANALYTICAL DATA

**HPLC:** Shows 99.9% purity

<sup>1</sup>H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 50.47 2.12 14.71 Found 50.43 2.04 14.62



# **Product Information**

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### **Description:**

R 7050 is an inhibitor of TNF- $\alpha$  receptor 1 (TNFR1) signaling; blocks TNFR1 association with TRADD and RIP1. Inhibits TNF- $\alpha$ -induced NF- $\kappa$ B and MAPK signaling pathway activation. Attenuates intracerebral hemorrhage-induced neurovascular injury in mice.

### **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{16}H_8CIF_3N_4S$ 

Batch Molecular Weight: 380.77

Physical Appearance: Yellow/orange solid

# Minimum Purity: ≥98%

**Batch Molecular Structure:** 

# $F_3C$ =N N N

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. \*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:

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

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

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