

## Certificate of Analysis

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**Product Name:** KLH 45

**Catalog No.:** 5865

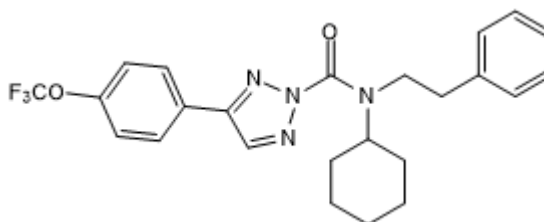
**Batch No.:** 1

CAS Number: 1632236-44-2

IUPAC Name: *N*-Cyclohexyl-*N*-(2-phenylethyl)-4-[4-(trifluoromethoxy)phenyl]-2*H*-1,2,3-triazole-2-carboxamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>24</sub>H<sub>25</sub>F<sub>3</sub>N<sub>4</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 458.48  
**Physical Appearance:** Colourless Viscous oil  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.33 (Dichloromethane)  
**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.87	5.5	12.22
Found	62.89	5.41	12.07

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

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**Description:**

Potent DDHD2 inhibitor ( $IC_{50} = 1.3$  nM). Selective for DDHD2 over 40 other serine hydrolases, but does exhibit cross-reactivity with ABHD6. Active *n vivo*. Increases brain triacylglycerol levels in mice.

**Physical and Chemical Properties:**

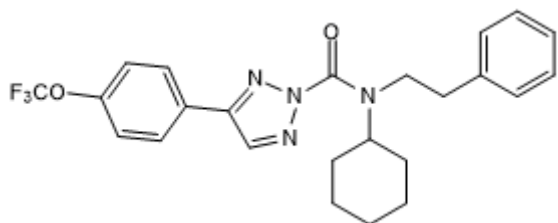
Batch Molecular Formula:  $C_{24}H_{25}F_3N_4O_2$

Batch Molecular Weight: 458.48

Physical Appearance: Colourless Viscous oil

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 100 mM

This product is supplied as a lyophilized oil and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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.

**Licensing Information:**

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**References:**

Inloes *et al* (2014) The hereditary spastic paraplegia-related enzyme DDHD2 is a principal brain triglyceride lipase. *Proc.Natl.Acad.Sci.U.S.A.* **111** 14924. PMID: 25267624 .

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