

**Product Name:** Tocrifluor T1117

**Catalog No.:** 2540

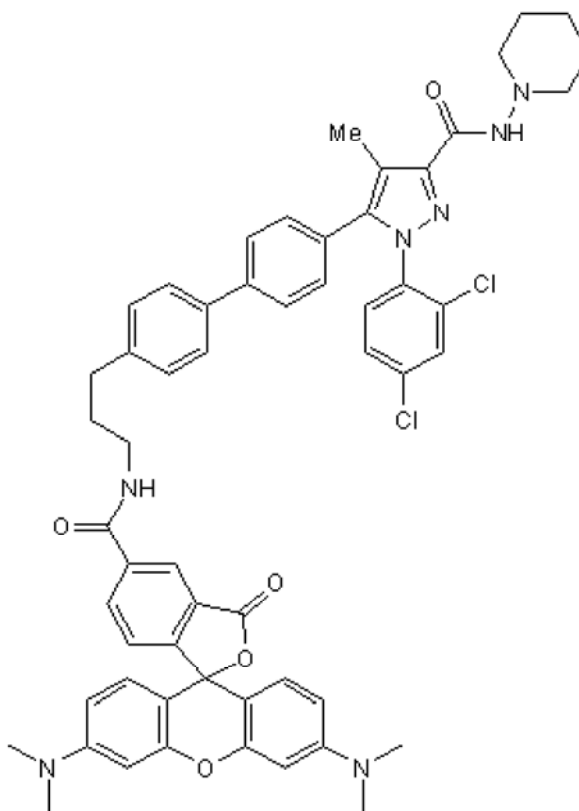
**Batch No.:** 6

CAS Number: 1186195-59-4

IUPAC Name: *N*-(Piperidin-1-yl)-5-(4-(4-(3-(5-carboxamidotetramethylrhodaminy)propyl))phenyl)phenyl)-1-(2,4-dichlorophenyl)-4-methyl-1*H*-pyrazole-3-carboxamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>56</sub>H<sub>53</sub>Cl<sub>2</sub>N<sub>7</sub>O<sub>5</sub>  
**Batch Molecular Weight:** 974.97  
**Physical Appearance:** Purple solid  
**Solubility:** DMSO to 10 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows >97.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

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

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**Description:**

Fluorescent form of AM 251. AM 251 conjugated with 5-carboxytetramethylrhodamine (5-TAMRA) that fluoresces at 543 nm excitation (590 nm emission). Displays GPR55 binding activity. View more information regarding Tocrifluor T1117.

**Physical and Chemical Properties:**

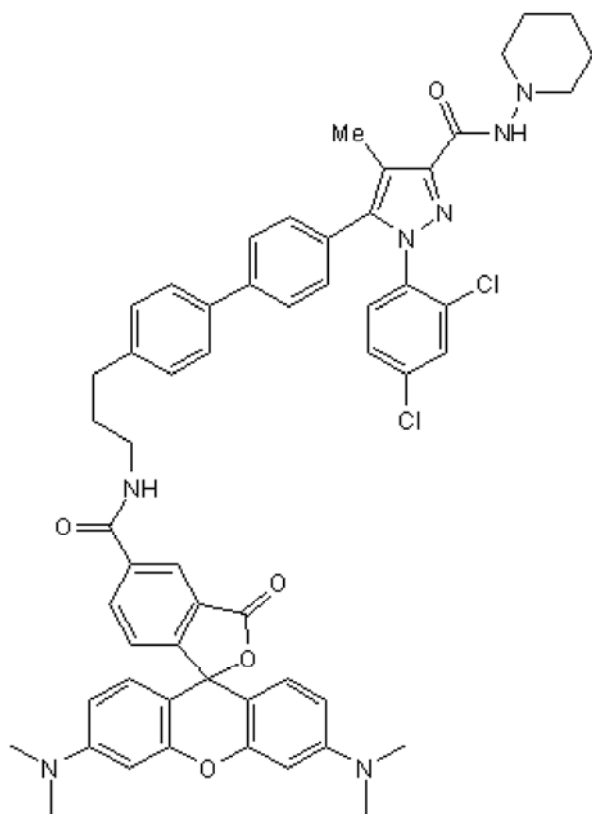
Batch Molecular Formula: C<sub>56</sub>H<sub>53</sub>Cl<sub>2</sub>N<sub>7</sub>O<sub>5</sub>

Batch Molecular Weight: 974.97

Physical Appearance: Purple solid

**Minimum Purity:** >95%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 10 mM

This product is supplied as a lyophilized solid 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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**References:**

**Bruno et al** (2014) Beyond radio-displacement techniques for identification of CB<sub>1</sub> ligands: the first application of a fluorescence-quenching assay. *Sci.Rep.* **4** 3757. PMID: 24441508.

**Sylantsev et al** (2013) Cannabinoid- and lysophosphatidylinositol-sensitive receptor GPR55 boosts neurotransmitter release at central synapses. *Proc.Natl.Acad.Sci.U.S.A.* **110** 1939-1944. PMID: 2342002

**Daly et al** (2010) Fluorescent ligand binding reveals heterogeneous distribution of adrenoceptors and 'cannabinoid-like' receptors in small arteries. *Br.J.Pharmacol.* **161** 787-797. PMID: 20136859

**Daly et al** (2008) Visualisation of vascular cannabinoid receptors and their potential interaction with α<sub>1</sub>-adrenoceptors. *Vascular and Smooth Muscle Phys.Soc. Symposium.*

Small Arteries • Br.J.Pharmacol. • **North America** • **China** • **Europe Middle East Africa** • **Rest of World**  
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