bio-techne
TOCRIS

Print Date: Feb 28th 2024

Certificate of Analysis

www.tocris.com

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-carboxamidotetramethylrhodaminyl)propyl))phenyl)-1-(2,4-dichlorophenyl)-4-methyl-1*H*-pyrazole-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{56}H_{53}Cl_2N_7O_5$

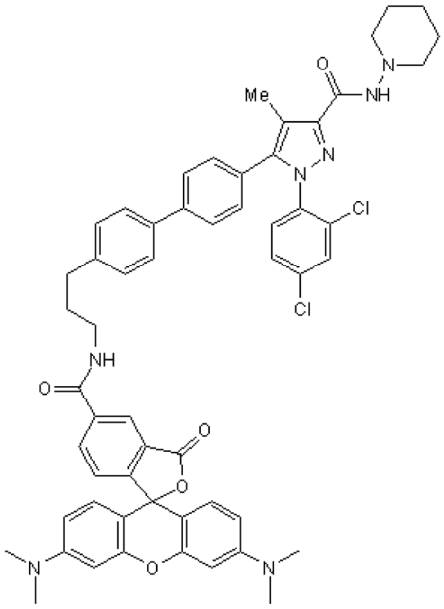
Batch Molecular Weight: 974.97

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

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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Description:

Tocrifluor T1117 is a 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. Wavelengths are compatible with use as an acceptor dye in TR-FRET assays, together with the CoraFluor™ 1 (Cat. No. 7920) TR-FRET donor. View more information regarding Tocrifluor T1117.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{56}H_{53}Cl_2N_7O_5$

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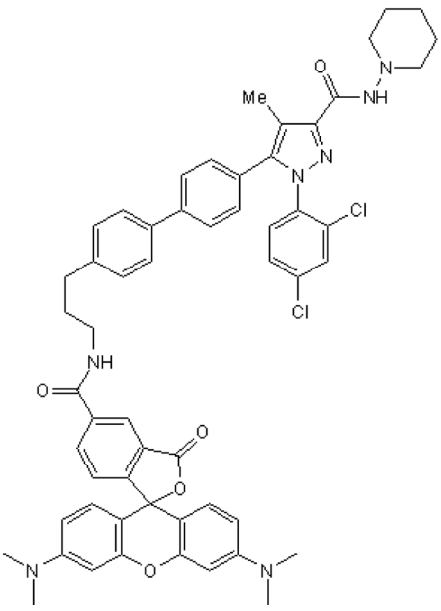
Physical Appearance: Purple solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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. *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:

Bruno *et al* (2014) Beyond radio-displacement techniques for identification of CB_1 ligands: the first application of a fluorescence-quenching assay. Sci.Rep. ***4*** 3757. PMID: 24441508.

Sylantyev *et al* (2013) Cannabinoid- and lysophosphatidylinositol-sensitive receptor GPR55 boosts neurotransmitter release at central synapses. Proc.Natl.Acad.Sci.U.S.A. ***110*** 5193. PMID: 23472002.

Daly *et al* (2010) Fluorescent ligand binding reveals heterogeneous distribution of adrenoceptors and 'cannabinoid-like' receptors in small arteries. Br.J.Pharmacol. ***159*** 787. PMID: 20136833.