Certificate of Analysis

Product Name: **JNJ DGAT2-A** **Catalog No.: 5853** **Batch No.: 1**

CAS Number: 1962931-71-0

IUPAC Name: 3-Bromo-4-[2-fluoro-4-[[4-oxo-2-[[2-(pyridin-2-yl)ethyl]amino]-1,3-thiazol-5-(4*H*)ylidene]methyl]phenoxy]benzonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{16}BrFN_4O_2S$

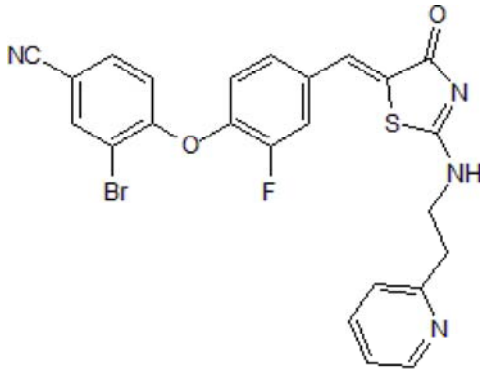
Batch Molecular Weight: 523.38

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (5% 7N ammonia in MeOH/DCM)

HPLC: Shows 98.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.08	3.08	10.7
Found	55.17	3.16	10.73

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Product Information

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Description:

DGAT2 inhibitor (IC_{50} = 140 nM). Exhibits >70-fold selectivity for DGAT2 over DGAT1 and MGAT2.

Physical and Chemical Properties:

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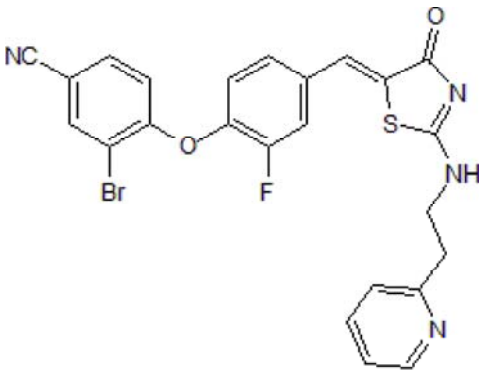

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 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:

Irshad *et al* (2017) Diacylglycerol acyltransferase 2 links glucose utilization to fatty acid oxidation in the brown adipocytes. J.Lipid Res. ***58*** 15. PMID: 27836993.

Qi *et al* (2012) The use of stable isotope-labeled glycerol and oleic acid to differentiate the hepatic functions of DGAT1 and -2 J.Lipid Res. ***53*** 1106. PMID: 22493088.