Print Date: Sep 26th 2022

Certificate of Analysis

www.tocris.com

Product Name: **INT 131** **Catalog No.: 7423** **Batch No.: 1**

CAS Number: 315224-26-1

IUPAC Name: 2,4-Dichloro-*N*-[3,5-dichloro-4-(3-quinolinyloxy)phenyl]benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{12}Cl_4N_2O_3S$

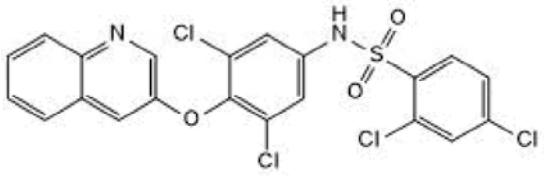
Batch Molecular Weight: 514.21

Physical Appearance: Off-white solid

Solubility: DMSO to 5 mM
ethanol to 5 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.05	2.35	5.45
Found	48.64	2.35	5.26

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Name: **INT 131** **Catalog No.: 7423** **1**

CAS Number: 315224-26-1

IUPAC Name: 2,4-Dichloro-*N*-[3,5-dichloro-4-(3-quinolinyloxy)phenyl]benzenesulfonamide

Description:

INT 131 is a potent and selective PPARγ partial agonist (EC_{50} = 4 nM; K_i = 3.7 nM). It has a 20-fold higher affinity for PPARγ compared with that of Rosiglitazone (Cat. No. 5325). INT 131 improves glucose tolerance in a rodent model of diabetes without inducing hemodynamic and cardiovascular effects. Antidiabetic agent.

Physical and Chemical Properties:

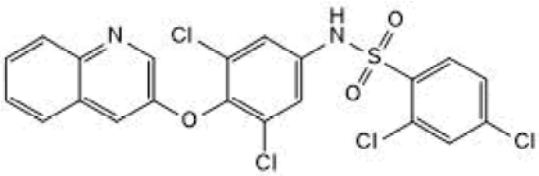
Batch Molecular Formula: $C_{21}H_{12}Cl_4N_2O_3S$

Batch Molecular Weight: 514.21

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 5 mM
ethanol to 5 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:

Frkic *et al* (2017) Structure-activity relationship of 2,4-Dichloro-*N*-(3,5-dichloro-4-(quinolin-3-yloxy)phenyl)benzenesulfonamide (INT131) analogs for PPARγ-targeted antidiabetics. J.Med.Chem. ***60*** 4584. PMID: 28485590.

Motani *et al* (2009) INT131: a selective modulator of PPARγ. J.Mol.Biol. ***386*** 1301. PMID: 19452630.