

Product Name: CITCO

Catalog No.: 3683

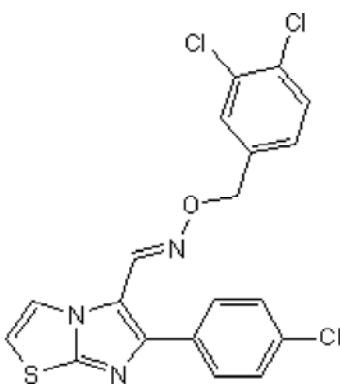
Batch No.: 3

CAS Number: 338404-52-7

IUPAC Name: 6-(4-Chlorophenyl)imidazo[2,1-b][1,3]thiazole-5-carbaldehyde-O-(3,4-dichlorobenzyl)oxime

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₂Cl₃N₃OS
Batch Molecular Weight: 436.74
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.25	2.77	9.62
Found	52.04	2.7	9.59

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

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Description:

Constitutive androstane receptor (CAR) agonist (EC₅₀ = 49 nM). Displays > 100-fold selectivity over PXR receptors and no activity at LXR, ER α , ER β , PPAR, RAR, FXR, VDR and THR. Induces CAR nuclear translocation and expression of CYP2B6 in hepatocytes in vitro.

Physical and Chemical Properties:

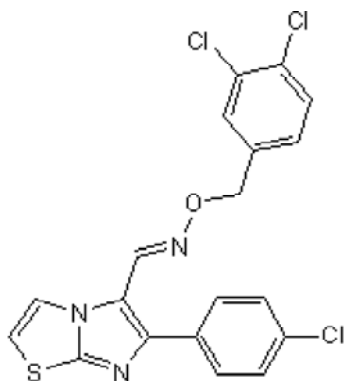
Batch Molecular Formula: C₁₉H₁₂Cl₃N₃OS

Batch Molecular Weight: 436.74

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



References:

Clen et al (2009) A single amino acid controls the functional switch of human CAR1 to the xenobiotic sensitive splicing variant CAR3. *J.Pharmacol.Exp.Ther.* **332** 106. PMID: 19820207.

Moreau et al (2007) Constitutive androstane receptor-vitamin D receptor crosstalk: consequence on CYP24 gene expression. *Biochem.Biophys.Res.Comm.* **360** 76.

Maglich et al (2003) Identification of a novel human constitutive androstane receptor (CAR) agonist and its use in the identification of CAR target genes. *J.Biol.Chem.* **278** 17277. PMID: 12611900.

Storage: Desiccate at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 50 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.

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