

Product Name: IMD 0354

Catalog No.: 2611

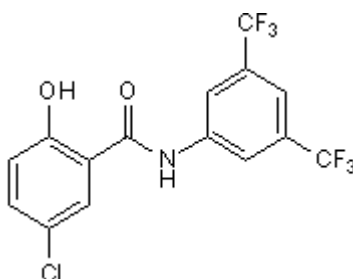
Batch No.: 1

CAS Number: 978-62-1

IUPAC Name: *N*-[3,5-Bis(trifluoromethyl)phenyl]-5-chloro-2-hydroxybenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₈ClF₆NO₂
Batch Molecular Weight: 383.67
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Ethyl acetate:Hexane [9:1])
HPLC: Shows >99.78% purity
¹H NMR: Consistent with structure
¹³C NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	46.96	2.1	3.65
Found	46.71	1.95	3.58

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

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Description:

Inhibitor of I κ B kinase- β (IKK β) that blocks NF- κ B nuclear translocation. Attenuates myocardial ischemia/reperfusion injury by decreasing expression of adhesion molecules ICAM-1 and P-selectin and inhibiting cytokine and chemokine production in cardiomyocytes. Induces G₀/G₁ cell cycle arrest and apoptosis in HMC-1 and breast cancer cells.

Physical and Chemical Properties:

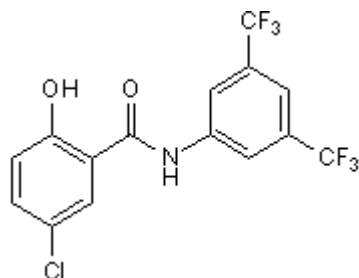
Batch Molecular Formula: C₁₅H₈ClF₆NO₂

Batch Molecular Weight: 383.67

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°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 100 mM

ethanol 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:

Onai et al (2004) Inhibition of I κ B phosphorylation in cardiomyocytes attenuates myocardial ischemia/reperfusion injury. *Cardiovasc.Res.* **63** 51. PMID: 15194461.

Tanaka et al (2005) A novel NF- κ B inhibitor, IMD-0354, suppresses neoplastic proliferation of human mast cells with constitutively activated *c-kit* receptors. *Hematopoiesis* **105** 2324.

Tanaka et al (2006) A new I κ B kinase β inhibitor prevents human breast cancer progression through negative regulation of cell cycle transition. *Cancer Res.* **66** 419. PMID: 16397257.

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