

**Product Name:** IMD 0354

**Catalog No.:** 2611

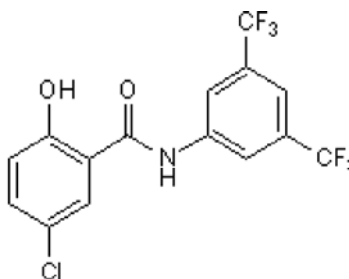
**Batch No.:** 1

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:** C<sub>15</sub>H<sub>8</sub>ClF<sub>6</sub>NO<sub>2</sub>  
**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<sub>f</sub> = 0.3 (Ethyl acetate:Hexane [9:1])  
**HPLC:** Shows >99.78% purity  
<sup>1</sup>H NMR: Consistent with structure  
<sup>13</sup>C 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 IκB kinase-β (IKKβ) that blocks NF-κB 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 G<sub>0</sub>/G<sub>1</sub> cell cycle arrest and apoptosis in HMC-1 and breast cancer cells. Also antagonist at P2X<sub>1</sub>, P2X<sub>4</sub> and P2X<sub>7</sub> receptors (IC<sub>50</sub> values are 19, 156 and 175 nM respectively). Inhibits platelet aggregation induced by collagen *in vitro*.

**Physical and Chemical Properties:**

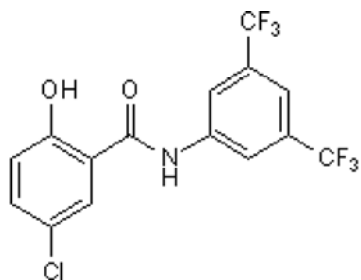
Batch Molecular Formula: C<sub>15</sub>H<sub>8</sub>ClF<sub>6</sub>NO<sub>2</sub>

Batch Molecular Weight: 383.67

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**References:**

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

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

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

**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.

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