

**Product Name:** EO 1428

**Catalog No.:** 2908

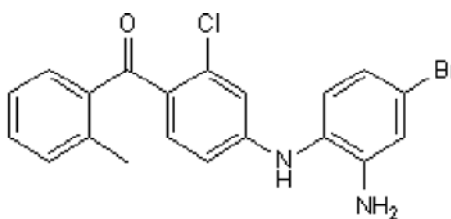
**Batch No.:** 1

CAS Number: 321351-00-2

IUPAC Name: (2-Methylphenyl)-[4-[(2-amino-4-bromophenyl)amino]-2-chlorophenyl]methanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>16</sub>BrClN<sub>2</sub>O  
**Batch Molecular Weight:** 415.71  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.4 (Ethyl acetate:Petroleum ether [4:1])  
**HPLC:** Shows >98.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	5.78	3.88	6.74
Found	5.69	3.88	6.51

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**Description:**

Selective inhibitor of p38 $\alpha$  and p38 $\beta_2$  that displays no activity at p38 $\gamma$ , p38 $\delta$ , ERK1/2 and JNK1. Inhibits production of inflammatory cytokines including IL-8, TNF- $\alpha$ , IL-6, IL-1 $\beta$  and IL-10 (IC<sub>50</sub> values are 4, 5, 17, 30 and 74 nM respectively). Displays anti-inflammatory activity in murine models of acute and chronic dermatitis.

**Physical and Chemical Properties:**

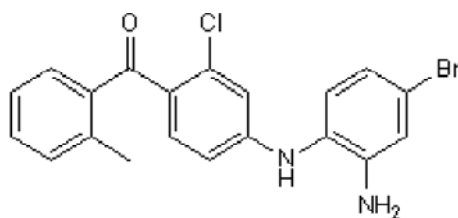
Batch Molecular Formula: C<sub>20</sub>H<sub>16</sub>BrClN<sub>2</sub>O

Batch Molecular Weight: 415.71

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol 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.

**References:**

Ottosen *et al* (2003) Synthesis and structure-activity relationship of aminobenzophenones. A novel class of p38 MAP kinase inhibitors with high antiinflammatory activity. *J.Med.Chem.* **46** 5651. PMID: 14667219.

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