

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: C₂₀H₁₆BrClN₂O

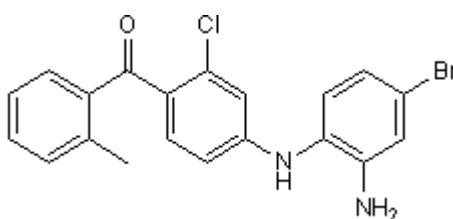
Batch Molecular Weight: 415.71

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_f = 0.4 (Ethyl acetate:Petroleum ether [4:1])

HPLC: Shows >98% purity

¹H 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 α and p38 β_2 that displays no activity at p38 γ , p38 δ , ERK1/2 and JNK1. Inhibits production of inflammatory cytokines including IL-8, TNF- α , IL-6, IL-1 β and IL-10 (IC₅₀ 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:

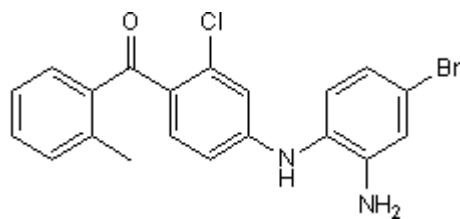
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Batch Molecular Weight: 415.71

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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