

Product Name: ZM 336372

Catalog No.: 1321

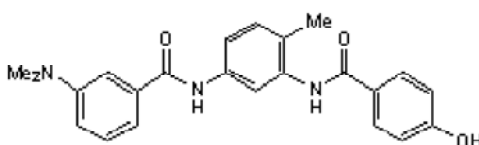
Batch No.: 2

CAS Number: 208260-29-1

IUPAC Name: 3-(Dimethylamino)-N-[3-[(4-hydroxybenzoyl)-amino]-4-methylphenyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₃N₃O₃
Batch Molecular Weight: 389.45
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Ethyl acetate:Petroleum ether [3:1])
Melting Point: Between 258 - 260°C(Dec)
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.93	5.95	10.78
Found	70.84	5.93	10.8

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

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CAS Number: 208260-29-1

IUPAC Name: 3-(Dimethylamino)-N-[3-[(4-hydroxybenzoyl)-amino]-4-methylphenyl]benzamide

Description:

Potent, selective inhibitor of c-Raf in vitro (IC_{50} = 70 nM for inhibition of human c-Raf). Shows 10-fold selectivity over B-Raf. Also inhibits SAPK2/p38 (IC_{50} = 2 μ M). Selective over 17 other protein kinases including PKA, PKC, p42 MAPK, CDK1 and SAPK1/JNK (up to 50 μ M).

Physical and Chemical Properties:

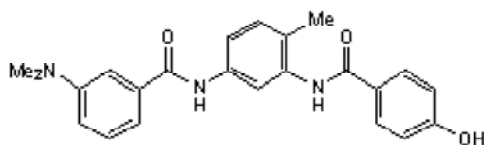
Batch Molecular Formula: $C_{23}H_{23}N_3O_3$

Batch Molecular Weight: 389.45

Physical Appearance: White solid

Minimum Purity: $\geq 99\%$

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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.

Licensing Information:

Sold with the permission of AstraZeneca Ltd

References:

Wartenberg et al (2001) Down-regulation of intrinsic p-glycoprotein expression in multicellular prostate tumor spheroids by reactive oxygen species. *J.Biol.Chem.* **276** 17420. PMID: 11279018.

Hall-Jackson et al (1999) Paradoxical activation of Raf by a novel Raf inhibitor. *Chem.Biol.* **6** 559. PMID: 10421767.

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