

Certificate of Analysis

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Product Name: GW 5074

Catalog No.: 1381

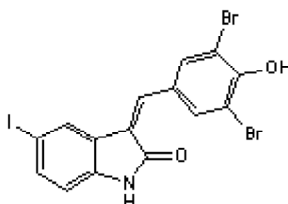
Batch No.: 3

CAS Number: 220904-83-6

IUPAC Name: 3-(3,5-Dibromo-4-hydroxy-benzylidene)-5-iodo-1,3-dihydro-indol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₈Br₂INO₂
Batch Molecular Weight: 520.94
Physical Appearance: Yellow solid
Solubility: ethanol to 1 mM
DMSO to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.43 (Dichloromethane:Methanol [95:5])
Melting Point: Between 267 - 268°C
HPLC: Shows 96.9% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	34.58	1.55	2.69
Found	34.5	1.41	2.73

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

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Description:

GW 5074 is a potent, selective and cell-permeable c-Raf1 kinase inhibitor ($IC_{50} = 9$ nM). GW 5074 displays ≥ 100 -fold selectivity for raf kinase over CDK1, CDK2, c-src, ERK2, MEK, p38, Tie2, VEGFR2 and c-fm. GW 5074 binds mutant huntingtin (mHTT) and decreases levels of mHTT in cultured hippocampal neurons and fibroblasts from patients with Huntington's disease. Brain penetrant.

Physical and Chemical Properties:

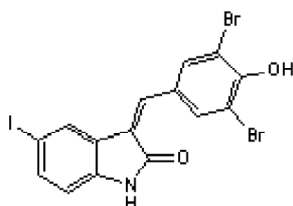
Batch Molecular Formula: $C_{15}H_8Br_2INO_2$

Batch Molecular Weight: 520.94

Physical Appearance: Yellow solid

Minimum Purity: $\geq 95\%$

Batch Molecular Structure:



Storage: Desiccate at $-20^{\circ}C$

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:

ethanol to 1 mM

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 $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold for research purposes under agreement from Glaxo Wellcome Inc and Glaxo Group Ltd.

References:

Xue *et al* (2023) Discovery of a drug-like, natural product-inspired DCAF11 ligand chemotype. *Nat. Commun.* **14** 7908. PMID: 38036533.

Li *et al* (2019) Allele-selective lowering of mutant HTT protein by HTT-LC3 linker compounds. *Nature* **575** 203. PMID: 31666698 .

Chen *et al* (2008) Inhibition of ATF-3 expression by B-Raf mediates the neuroprotective action of GW5074. *J.Neurochem.* **105** 1300. PMID: 18194435.

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