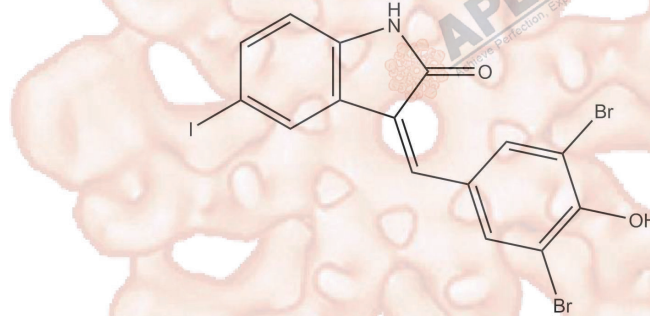


Product Data Sheet

GW5074

Cat. No.:	B1405
CAS No.:	220904-83-6
Formula:	C ₁₅ H ₈ Br ₂ INO ₂
M.Wt:	520.94
Synonyms:	
Target:	MAPK Signaling
Pathway:	Raf
Storage:	Store at -20°C



Solvent & Solubility

>26.1mg/mL in DMSO

In Vitro

Preparing	Solvent	Mass		
		1mg	5mg	10mg
Stock Solutions	Concentration			
	1 mM	1.9196 mL	9.5980 mL	19.1961 mL
	5 mM	0.3839 mL	1.9196 mL	3.8392 mL
	10 mM	0.1920 mL	0.9598 mL	1.9196 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

C-Raf inhibitor,potent and selective

IC₅₀ & Target

9 nM (C-Raf)

In Vitro

Cell Viability Assay

Cell Line:	Cerebellar granule neurons
Preparation method:	The solubility of this compound in DMSO is >26.1mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	1 μM, 40 min
Applications:	Treatment of neurons with GW5074 caused c-Raf activation and stimulated the

	Raf-MEK-ERK pathway. Treatment of neurons with GW5074 led increased the activity of B-Raf. GW5074 inhibited cell death caused by neurotoxins in granule cells and other neuronal types.	
In Vivo	Animal experiment	
	Animal models:	C57BL/6 male mice with Huntington's disease (HD), Mice repeatedly exposed to smoke from four cigarettes each day for four weeks
	Dosage form:	Intraperitoneal injection, 2 mg/kg, every day for three weeks
	Applications:	GW5074 (5 mg/kg) completely prevented extensive bilateral striatal lesions induced by 3-NP in C57BL/6 male mice. GW5074 (0.5 mg/kg or 2 mg/kg) suppressed side stream smoke-induced airway hyperresponsiveness in mice.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Chin P C, Liu L, Morrison B E, et al. The c - Raf inhibitor GW5074 provides neuroprotection in vitro and in an animal model of neurodegeneration through a MEK - ERK and Akt - independent mechanism[J]. Journal of neurochemistry, 2004, 90(3): 595-608.
- [2]. Lei Y, Cao Y X, Xu C B, et al. The Raf-1 inhibitor GW5074 and dexamethasone suppress sidestream smoke-induced airway hyperresponsiveness in mice[J]. Respiratory research, 2008, 9(1): 71.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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