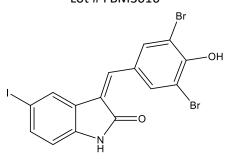


Catalog # 10-1031 GW-5074

CAS# 220904-83-6 3-(3,5-Dibromo-4-hydroxybenzylidene)-5-iodo-1,3-dihydroindol-2-one Lot # FBM3016



Potent inhibitor of cRAF1 kinase ($IC_{50} = 9 \text{ nM}$).¹ Displays 100-fold selectivity for cRAF1 over CDK1, CDK2, c-src, ERK2, MEK, p38, Tie2, VEGFR2 and c-fm. Displays neuroprotective effects *In vivo* via a mechanism that is independent of MEK, ERK, and Akt signaling. GW-5074 was able to reduce mutant huntingtin protein (mHTT) levels but not wild-type *via* linking mHTT to LC3 leading to autophagic degradation.⁵ A promising new strategy in the field of targeted protein degradation via utilization of autophagy. Cell permeable.

- 1) Lackey et al. (2000), The discovery of potent cRaf1 kinase inhibitors; Bioorg. Med. Chem. Lett., 10 223
- Chang et al. (2005), Phorbol 12-myristate 13-acetate upregulates cyclooxygenase-2 expression in human pulmonary epithelial cells via Ras, Raf-1, ERK, and NF-kappaB, but not p38 MAPK pathways; Cell Signal., 217 299
- Huang et al. (2006), Fibroblast growth factor-2 suppresses oridonin-induced L929 apoptosis through extracellular signal-regulated kinase-dependent and phosphatidylinositol 3-kinase-independent pathway; J. Pharmacol. Sci., 102 305
- 4) Chen et al. (2004), Bradykinin B2 receptor mediates NF-kappaB activation and cyclooxygenase-2 expression via the Ras/Raf-1/ERK pathway in human airway epithelial cells; J. Immunol., **173** 5219
- 5) Li et al. (2019), Allele-selective lowering of mutant HTT protein by HTT-LC3 linker compounds; Nature 575 203

PHYSICAL DATA

Molecular Weight:	520.95
Molecular Formula:	C ₁₅ H ₈ Br ₂ INO ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO may be stored at -20°C for up to 1 month.

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