

**Product Name:** GDC 0879

**Catalog No.:** 4453

**Batch No.:** 2

CAS Number: 905281-76-7

IUPAC Name: 2,3-Dihydro-5-[1-(2-hydroxyethyl)-3-(4-pyridinyl)-1H-pyrazol-4-yl]-1H-inden-1-one oxime

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>·½H<sub>2</sub>O

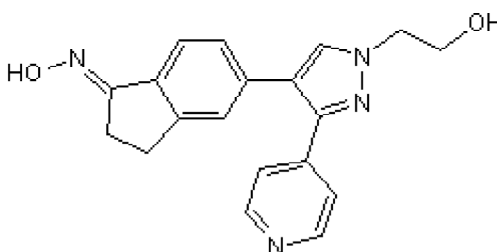
**Batch Molecular Weight:** 343.38

**Physical Appearance:** Off White solid

**Solubility:** DMSO to 10 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	66.46	5.58	16.32
Found	65.85	5.22	15.78

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

**Product Name:** GDC 0879

**Catalog No.:** 4453

**Batch No.:** 2

CAS Number: 905281-76-7

IUPAC Name: 2,3-Dihydro-5-[1-(2-hydroxyethyl)-3-(4-pyridinyl)-1H-pyrazol-4-yl]-1H-inden-1-one oxime

**Description:**

GDC 0879 is a potent and selective B-Raf inhibitor (IC<sub>50</sub> = 0.13 nM against purified B-Raf<sup>V600E</sup>). Activity reduces phospho-ERK (pERK) levels (IC<sub>50</sub> = 63 nM in the Malme-3M cell line). Inhibits the Raf/MEK/ERK signaling pathway in V600E B-Raf mutant cell lines. Does not activate apoptotic pathways in A375 or Colo205 cell lines. Orally bioavailable.

**Physical and Chemical Properties:**

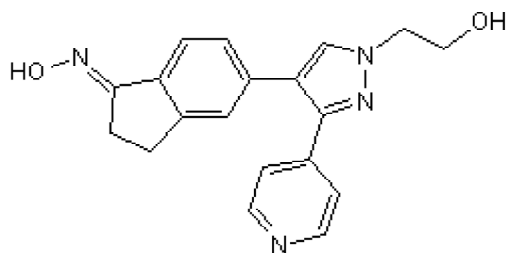
Batch Molecular Formula: C<sub>19</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 343.38

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 10 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. \*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°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Hatzivassiliou et al** (2010) RAF inhibitors prime wild-type RAF to activate the MAPK pathway and enhance growth. *Nature* **464** 431. PMID: 20130576.

**Hoeflich et al** (2009) Antitumor efficacy of the novel RAF inhibitor GDC-0879 is predicted by BRAF<sup>V600E</sup> mutational status and sustained extracellular signal-regulated kinase/mitogen-activated protein kinase pathway suppression. *Cancer Res.* **69** 3042. PMID: 19276360.

**Wong et al** (2009) Pharmacodynamics of 2-[4-[(1E)-1-(hydroxyimino)-2,3-dihydro-1H-inden-5-yl]-3-(pyridine-4-yl)-1H-pyrazol-1-yl]ethan-1-ol (GDC-0879), a potent and selective B-Raf kinase inhibitor: understanding relationships between systemic conc J.Pharmacol.Exp.Ther. **329** 360. PMID: 19147858.

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

**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors  
Tel:+1 612 379 2956