

**Product Name:** BGC 20-1531 hydrochloride

**Catalog No.:** 5327

**Batch No.:** 1

CAS Number: 1962928-26-2

IUPAC Name: 4-[[4-(5-Methoxy-2-pyridinyl)phenoxy]methyl]-5-methyl-N-[(2-methylphenyl)sulfonyl]-2-furancarboxamide hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>26</sub>H<sub>24</sub>N<sub>2</sub>O<sub>6</sub>S.HCl.1½H<sub>2</sub>O

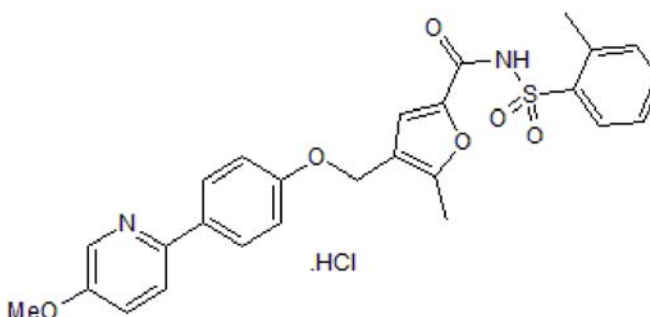
**Batch Molecular Weight:** 556.02

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.67 (Ethyl acetate:Petroleum ether [1:1])

**HPLC:** Shows 98.0% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.16	5.08	5.04
Found	56.01	4.74	5.03

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

**Product Name:** BGC 20-1531 hydrochloride

**Catalog No.:** 5327

**Batch No.:** 1

CAS Number: 1962928-26-2

IUPAC Name: 4-[[4-(5-Methoxy-2-pyridinyl)phenoxy]methyl]-5-methyl-N-[(2-methylphenyl)sulfonyl]-2-furancarboxamide hydrochloride

**Description:**

BGC 20-1531 hydrochloride is a high affinity and selective EP<sub>4</sub> antagonist (K<sub>i</sub> = 3 nM). Exhibits >2500-fold selectivity for EP<sub>4</sub> over EP<sub>2</sub> and EP<sub>3</sub>. Also selective over a range of other prostanoid receptors, ion channels, transporters and enzymes. Inhibits PGE<sub>2</sub>-induced vasodilation of middle cerebral and meningeal arteries in vitro, and carotid blood flow in vivo. Orally bioavailable.

**Physical and Chemical Properties:**

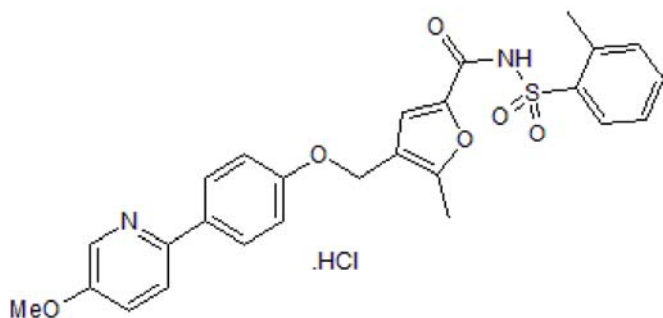
Batch Molecular Formula: C<sub>26</sub>H<sub>24</sub>N<sub>2</sub>O<sub>6</sub>S.HCl.1½H<sub>2</sub>O

Batch Molecular Weight: 556.02

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**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.

**References:**

**Sutton et al** (2014) From virtual to clinical: The discovery of PGN-1531, a novel antagonist of the prostanoid EP<sub>4</sub> receptor. *Bioorg.Med.Chem.Lett.* **24** 2212. PMID: 24703233.

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