

**Product Name:** BMS 599626 dihydrochloride

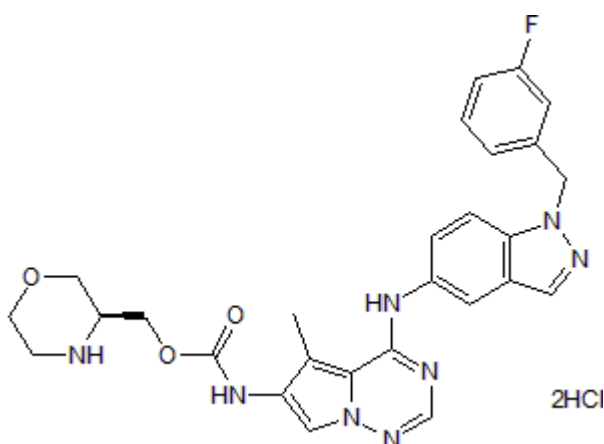
**Catalog No.:** 5022

**Batch No.:** 1

**IUPAC Name:** (3*S*)-3-Morpholinylmethyl-[4-[[1-[(3-fluorophenyl)methyl]-1*H*-indazol-5-yl]amino]-5-methylpyrrolo[2,1-*f*][1,2,4]triazin-6-yl]-carbamate dihydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>27</sub>H<sub>27</sub>FN<sub>8</sub>O<sub>3</sub>·2HCl·1¾H<sub>2</sub>O  
**Batch Molecular Weight:** 635  
**Physical Appearance:** White solid  
**Solubility:** water to 5 mM with gentle warming  
DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	51.07	5.16	17.65
Found	51.08	5.02	17.41

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**Description:**

Potent and selective EGFR and ErbB2 inhibitor (IC<sub>50</sub> values are 22 nM and 32 nM respectively). Also inhibits HER4 (IC<sub>50</sub> = 190 nM). Inhibits EGFR and ErbB2 with 100-fold greater potency than MEK and Lck. Antiproliferative agent in vitro and anti-tumorigenic agent in vivo. Orally bioavailable.

**Physical and Chemical Properties:**

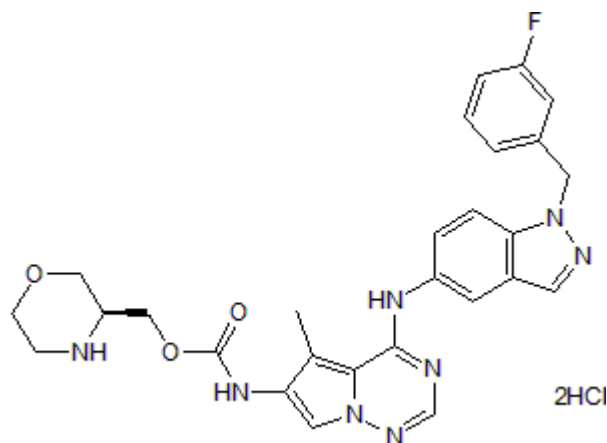
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Batch Molecular Weight: 635

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 5 mM with gentle warming  
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:**

**Wong et al (2006)** Preclinical antitumor activity of BMS-599626, a pan-HER kinase inhibitor that inhibits HER1/HER2 homodimer and heterodimer signaling. *Clin.Cancer Res.* **12** 6186. PMID: 17062696.

**Gavai et al (2009)** Discovery and preclinical evaluation of [4-[[1-(3-fluorophenyl)methyl]-1H-indazol-5-ylamino]-5-methylpyrrolo[2,1-f][1,2,4]triazin-6-yl]carbamic acid, (3S)-3-morpholinylmethyl ester (BMS-599626), a selective and orally efficacious inhibitor of human epidermal growth factor receptor 1 and 2 kinases. *J.Med.Chem.* **52** 6527. PMID: 19821562.

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