

Product Name: CGI 1746

Catalog No.: 6965

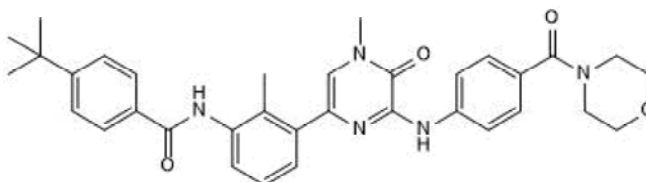
Batch No.: 1

CAS Number: 910232-84-7

IUPAC Name: *N*-[3-[4,5-Dihydro-4-methyl-6-[[4-(4-morpholinylcarbonyl)phenyl]amino]-5-oxo-2-pyrazinyl]-2-methylphenyl]-4-(1,1-dimethylethyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₄ H ₃₇ N ₅ O ₄ .
Batch Molecular Weight:	579.7
Physical Appearance:	Cream solid
Solubility:	ethanol to 20 mM DMSO to 5 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.5% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	70.45	6.43	12.08
Found	70.16	6.42	12.03

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

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Description:

CGI 1746 is a potent, reversible inhibitor of Bruton's tyrosine kinase (Btk) (IC_{50} = 1.9 nM). CGI 1746 decreases cell survival in prostate cancer cell lines. In a cell model, CGI 1746 blocks the production of FcγR-induced cytokines IL-1β, TNFα and IL-6 (IC_{50} values are 36 nM, 47 nM and 353 nM, respectively).

Physical and Chemical Properties:

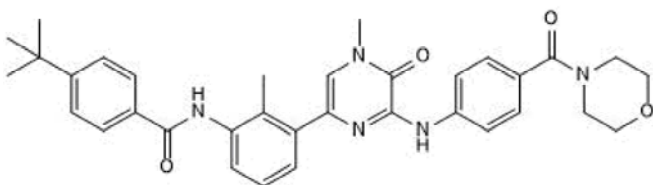
Batch Molecular Formula: C₃₄H₃₇N₅O₄.

Batch Molecular Weight: 579.7

Physical Appearance: Cream solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

ethanol to 20 mM

DMSO to 5 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:

Kokabee et al (2015) Bruton's tyrosine kinase is a potential therapeutic target in prostate cancer. *Cancer Biol. Ther.* **16** 1604. PMID: 26383180.

Di Paolo et al (2011) Specific Btk inhibition suppresses B cell- and myeloid cell-mediated arthritis. *Nat.Chem.Biol.* **7** 41. PMID: 21113169.

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