

Product Name: GSK 690693

Catalog No.: 4144

Batch No.: 2

CAS Number: 937174-76-0

IUPAC Name: 4-[2-(4-Amino-1,2,5-oxadiazol-3-yl)-1-ethyl-7-[(3*S*)-3-piperidinylmethoxy]-1*H*-imidazo[4,5-*c*]pyridin-4-yl]-2-methyl-3-butyn-2-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₇N₇O₃ · 1½H₂O

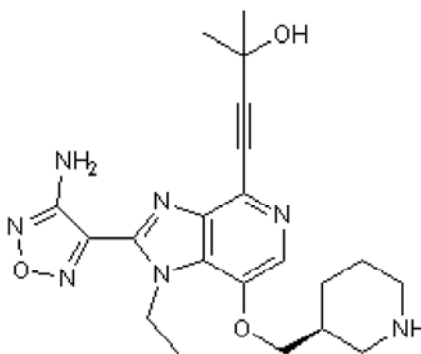
Batch Molecular Weight: 452.5

Physical Appearance: Cream solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.74	6.68	21.67
Found	55.53	6.7	21.76

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: GSK 690693

Catalog No.: 4144

Batch No.: 2

CAS Number: 937174-76-0

IUPAC Name: 4-[2-(4-Amino-1,2,5-oxadiazol-3-yl)-1-ethyl-7-[(3S)-3-piperidinylmethoxy]-1H-imidazo[4,5-c]pyridin-4-yl]-2-methyl-3-butyn-2-ol

Description:

ATP-competitive pan-Akt kinase inhibitor (IC₅₀ values are 2, 13 and 9 nM of Akt1, 2 and 3 respectively). Also exhibits some inhibition for AMPK, PKA and PAK and PKC isoforms (IC₅₀ < 100 nM). Displays antiproliferative and apoptotic effects in tumor cell lines.

Physical and Chemical Properties:

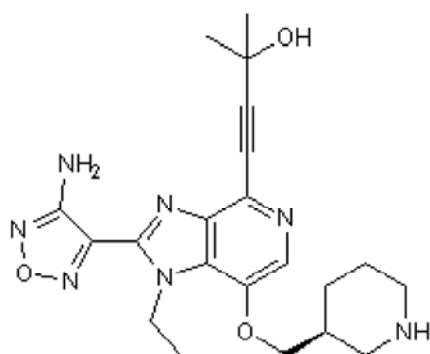
Batch Molecular Formula: C₂₁H₂₇N₇O₃·1½H₂O

Batch Molecular Weight: 452.5

Physical Appearance: Cream solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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.

Licensing Information:

Sold for research purposes only under agreement from GlaxoSmithKline

References:

Heerding et al (2008) Identification of 4-[2-(4-Amino-1,2,5-oxadiazol-3-yl)-1-ethyl-7-[(3S)-3-piperidinylmethoxy]oxy]-1H-imidazo[4,5-c]pyridin-4-yl]-2-methyl-3-butyn-2-ol (GSK690693), a novel inhibitor of AKT kinase. *J.Med.Chem.* **51** 5663. PMID: 18800763.

Rhodes et al (2008) Characterization of an Akt inhibitor with potent pharmacodynamic and antitumor activity. *Cancer Res.* **68** 2366. PMID: 18381444.

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