1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{25}\text{H}_{24}\text{N}_{4}\text{O}_{2} \)
Batch Molecular Weight: 412.48
Physical Appearance: Pale yellow solid
Solubility: DMSO to 20 mM
Storage: Store at -80°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: \( R_t = 0.4 \) (9/1, DCM/1M NH3 in MeOH)
HPLC: Shows >98.3% purity
\(^1\text{H} \text{NMR:} \) Consistent with structure
Mass Spectrum: Consistent with structure
Product Name: TCS 2312
Catalog No.: 3038 Batch No.: 5

CAS Number: 838823-31-7
IUPAC Name: 4’-[5-[[3-[(Cyclopropylamino)methyl]phenyl]amino]-1H-pyrazol-3-yl]-[1,1'-biphenyl]-2,4-diol

Description:
Potent and selective checkpoint kinase 1 (chk1) inhibitor (Ke = 0.38 nM, EC50 = 60 nM). Enhances the cell killing activity of Gemcitabine (Cat. No. 3259) in breast and prostate cancer cell lines and displays antiproliferative effects in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C25H24N4O2
Batch Molecular Weight: 412.48
Physical Appearance: Pale yellow solid
Minimum Purity: >97%

Storage: Store at -80°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO to 20 mM
This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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: