1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(C_{16}H_{13}NO_7\)
Batch Molecular Weight: 331.28
Physical Appearance: Yellow lyophilised solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 98% purity
Mass Spectrum: Consistent with structure
Description:
Potent inhibitor of MAP-kinase interacting kinase-2 (Mnk2) and JAK3 (IC50 values are 11, 31 and 116 nM for Mnk2, JAK3 and Mnk1 respectively). Blocks eIF4E phosphorylation; exhibits antiproliferative and proapoptotic activity in cancer cells in vitro. Also inhibits Pkc1. Orally bioavailable.

Physical and Chemical Properties:
Batch Molecular Formula: C16H13NO7
Batch Molecular Weight: 331.28
Physical Appearance: Yellow lyophilised solid
Minimum Purity: >96%

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).

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 10 mM
Solutions in DMSO are unstable and should be freshly prepared. When stored at -20°C, DMSO solution should be stable for 3 months. 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.

References: