PGP-4008
Item No. 20901

CAS Registry No.: 365565-02-2
Formal Name: N-[2,3-dihydro-1-(phenylmethyl)-1H-pyrrolo[2,3-b]quinolin-4-yl]-benzeneacetamide
MF: C26H23N3O
FW: 393.5
Purity: ≥95%
UV/Vis.: λmax 210, 256, 347 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

PGP-4008 is supplied as a crystalline solid. A stock solution may be made by dissolving the PGP-4008 in the solvent of choice. PGP-4008 is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas. The solubility of PGP-4008 in these solvents is approximately 5 and 50mM, respectively.

Description

PGP-4008 is a selective inhibitor of P-glycoprotein (P-gp) that does not affect the activity of multidrug resistance-related protein 1 (MRP1). It is effective in vitro and, when delivered intraperitoneally, in vivo, inhibiting tumor growth when given with doxorubicin (Item No. 15007). PGP-4008 also enhances the ability of docetaxel (Item No. 11637) to inhibit growth and drive apoptosis in ovarian cancer cells.

References