NVP-231
Item No. 13858

CAS Registry No.:    362003-83-6
Formal Name:        N-[2-(benzoylamino)-6-benzothiazolyl]-
                    tricyclo[3.3.1.1^3,7]decane-1-carboxamide
MF:                  C_{25}H_{25}N_{3}O_{2}S
FW:                  431.6
Purity:              ≥98%
UV/Vis.:             λ_{max}: 224, 316 nm
Supplied as:        A crystalline solid
Storage:            -20°C
Stability:           ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

NVP-231 is supplied as a crystalline solid. A stock solution may be made by dissolving the NVP-231 in the solvent of choice, which should be purged with an inert gas. NVP-231 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of NVP-231 in these solvents is approximately 1, 12, and 20 mg/ml, respectively.

Description

NVP-231 is a potent and reversible inhibitor of ceramide kinase (IC_{50} = 12 nM).\(^1\) It is selective for ceramide kinase over SPHK1, SPHK2, DAGKa, Pl3Ka, Pl4Kb, VPS34, GCS, SMS-1, and CERT (IC_{50}s = >5 mM). NVP-231 inhibits formation of ceramide-1-phosphate (C1P; IC_{50} = 10 nM) and cell death in ceramide kinase overexpressing COS cells (COS-CerK). It also inhibits C1P formation and tube formation in murine dermal microvascular endothelial cells when used at a concentration of 100 nM.\(^2\)

References