PRODUCT INFORMATION

K252b
Item No. 11339

CAS Registry No.: 99570-78-2
Formal Name: (9S,10R,12R)-2,3,9,10,11,12-hexahydro-10-hydroxy-9-methyl-1-oxo-9,12-epoxy-1H-diindolo[1,2,3-fg:3',2',1'-kl]pyrrolo[3,4-ij][1,6]benzodiazocine-10-carboxylic acid

MF: C_{26}H_{19}N_{3}O_{5}
FW: 453.5
Purity: ≥98%
UV/Vis.: \lambda_{max}^\text{nm}: 231, 250, 291, 336, 351 368
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

K252b is supplied as a crystalline solid. A stock solution may be made by dissolving the K252b in the solvent of choice, which should be purged with an inert gas. K252b is soluble in the organic solvent methanol at a concentration of approximately 2 mg/ml.

Description

K252b is an indolocarbazole isolated from the actinomycete Nocardiopsis, first described as an inhibitor of protein kinase C. However, as this compound does not freely pass through the cell membrane, it is used to inhibit extracellular kinases (ectokinases) of cells in culture. K252b inhibits receptor-mediated degranulation from basophil-like RBL-2H3 cells (IC_{50} = 0.5 μg/ml) and human basophils. This extracellular inhibitor is also used in comparison studies with the closely related, cell-permeable inhibitor K252a, particularly in studies of neuronal differentiation.

References