(-)-Indolactam V

(-)-Indolactam V is an indole alkaloid compound that activates protein kinase C (PKC). It binds to the α, β, γ, δ, ε, and η isozymes of PKC with Ki values of 11, 6, 19, 8, 22, and 16 nM respectively (Kazanietz et al.; Masuda et al.).

Molecular Name: (-)-Indolactam V
Alternative Names: Not applicable
CAS Number: 90365-57-4
Chemical Formula: C₁₇H₂₃N₃O₂
Molecular Weight: 301.4 g/mol
Purity: ≥ 97%
Chemical Name: (2S,5S)-1,2,4,5,6,8-hexahydro-5-(hydroxymethyl)-1-methyl-2-(1-methylethyl)-3H-pyrrolo[4,3,2-gh]-1,4-benzodiazonin-3-one

Structure:

HO
N
H
N
O

Properties

Physical Appearance: White to off-white solid
Storage: Product stable at 2 - 8°C as supplied. Protect from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Solubility:
- DMSO ≤ 30 mM
- Absolute ethanol ≤ 15 mM
For example, to prepare a 5 mM stock solution in DMSO, resuspend 300 µg in 199 µL of fresh DMSO.

Prepare stock solution fresh before use. Information regarding stability of small molecules in solution has rarely been reported, however, as a general guide we recommend storage in DMSO at -20°C. Aliquot into working volumes to avoid repeated freeze-thaw cycles. The effect of storage of stock solution on compound performance should be tested for each application.

Compound has low solubility in aqueous media. For use as a cell culture supplement, stock solution should be diluted into culture medium immediately before use. Avoid final DMSO concentration above 0.1% due to potential cell toxicity.
Published Applications

DIFFERENTIATION
- Promotes differentiation to human and mouse pancreatic precursors from pluripotent stem cell-derived definitive endoderm (Borowiak et al., Chen et al., Thatava et al.).

References


Related Small Molecules

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