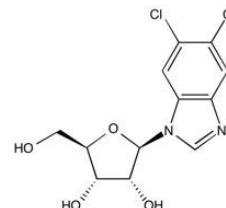


Catalog	Unit
TBI2047 - 10MG	10 mg
TBI2047 - 50MG	50 mg

Product Details

Formal Name: 5,6-Dichloro-1-β-D-ribofuranosylbenzimidazole
Alternate Names: 5,6-Dichlorobenzimidazole riboside; NSC 401575
Molecular Formula: C₁₂H₁₂Cl₂N₂O₄
Formula Weight: 319.14
CAS Number: 53-85-0
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to 20 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

Transcription inhibitor; CK2 inhibitor

Functions

DRB (53-85-0) is a classic inhibitor of transcription by RNA polymerase II. A relatively selective inhibitor of Cdk9 (IC₅₀ = 3 μM), the kinase of the positive transcription elongation factor b (P-TEF-b) required for processive transcription elongation by RNA polymerase II. Also inhibits casein kinase II, IC₅₀ = 4-10 μM. Suppresses the SIRT1/CK2α pathway and enhances the radiosensitivity of human cancer cells. Kinase-independent activities of Cdk9 such as glucocorticoid receptor modulation are not inhibited by DRB.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

For research use only.