

BMH-21, RNA polymerase I inhibitor

Catalog	Unit
TBI5688-5MG	5 mg
TBI5688-25MG	25 mg

Product Details

Formal Name: N-[2-(dimethylamino)ethyl]-12-oxo-12H-benzo[*g*]pyrido[2,1-*b*]quinazoline-4-carboxamide

Molecular Formula: C₂₁H₂₀N₄O₂

Formula Weight: 360.40

CAS Number: 896705-16-1

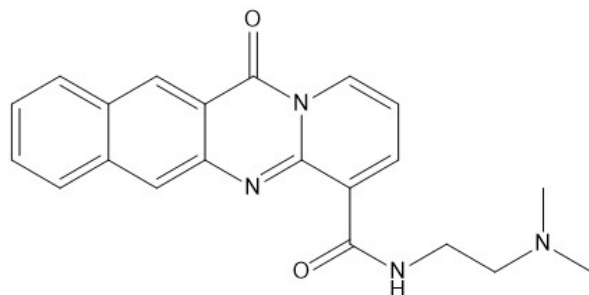
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (13 mg/ml with warming)

Storage: -20°C

Stability: ≥ 2 years.



Applications

RNA polymerase I inhibitor

Functions

A planar heterocyclic DNA intercalator that inhibits RNA polymerase I (Pol I), IC₅₀ = 0.6 μM in U2OS cells, but not Pols II or III, blocking transcription elongation without inducing the DNA damage response. Inhibition disengages Pol I from chromatin, resulting in proteasome-dependent destruction of Pol I subunit RPA194. At nanomolar concentrations it also activates p53 in A375 cells.

Application Procedures

First dissolved in DMSO (13 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.