

YC-1, Soluble guanylyl cyclase activator

| Catalog | Unit |
|--------------|-------|
| TBI1581-5MG | 5 mg |
| TBI1581-25MG | 25 mg |

Product Details

Formal Name: 3-(5'-Hydroxymethyl-2'-furyl)-1-benzylindazole

Alternate Names: Lificiguat

Molecular Formula: C₁₉H₁₆N₂O₂

Formula Weight: 304.34

CAS Number: 170632-47-0

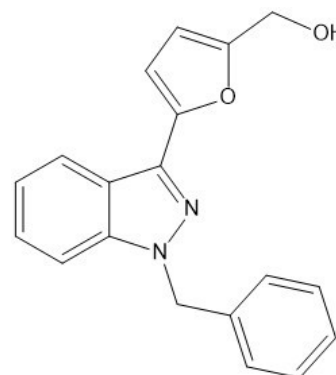
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 35 mg/ml) or in Ethanol (up to 15 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Soluble guanylyl cyclase activator

Functions

Nitric oxide-independent activator of soluble guanylyl cyclase (sGC). Significantly elevates cGMP levels and inhibits collagen-stimulated aggregation of rabbit platelets (IC₅₀ = 14.6 μM). Induces human endometrial cancer cell senescence via modulation of HIF1α activity. Induces degradation of HIF1α. Protects against glutamate-induced neuronal damage and β-amyloid-induced toxicity in differentiated PC12 cells.

Application Procedures

First dissolved in DMSO (up to 35 mg/ml) or in Ethanol (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

For research use only.