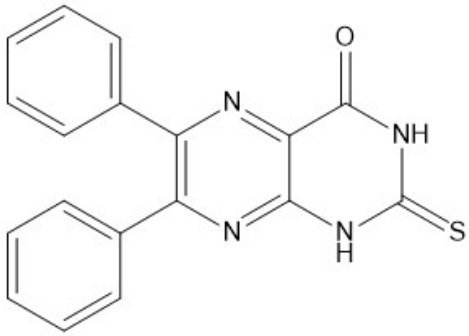
Tribioscience

SCR7 pyrazine, CRISPR enhancer

Catalog	Unit
TBI3652-5MG	5 mg
TBI3652-25MG	25 mg

Product Details

Formal Name: 2,3-Dihydro-6,7-diphenyl-2-thioxo-4(1H)-pteridinone
Alternate Names: SCR7-G; SCR7-X
Molecular Formula: $C_{18}H_{12}N_4OS$
Formula Weight: 332.4
CAS Number: 14892-97-8
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to 35 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

CRISPR enhancer

Functions

Enhances the efficiency of precise genome editing with CRISPR/Cas9 up to 19-fold via inhibition of nonhomologous end joining (NHEJ)1,2. May be employed in an optimized CRISPR/Cas9 method to target methylation in a site-specific manner enabling maintenance of gene silencing in vitro and in vivo3. SCR7 pyrazine exhibits greater activity against DNA ligases I and III than DNA ligase IV4. Induces cancer cell death via inhibition of NHEJ and potentiates the effect of double strand break-inducing therapeutic modalities4,5.

Application Procedures

First dissolved in DMSO (35 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.