

ChX710

Chemical Properties

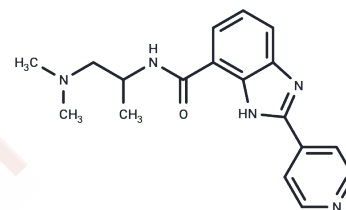
CAS No. : 2438721-44-7

Formula: C₁₈H₂₁N₅O

Molecular Weight: 323.39

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

| | |
|---------------|---|
| Description | ChX710 activates the type I interferon response to cytosolic DNA by priming specific Interferon-Stimulated Genes (ISGs), inducing the ISRE promoter sequence, and facilitating the phosphorylation of Interferon Regulatory Factor (IRF) 3. |
| Targets(IC50) | STING |
| In vitro | The treatment of ChX710 efficiently prime the cellular response to DNA transfection via STING as assessed by strong synergistic effects on IFN- β expression at both transcriptional and protein levels. |

Solubility Information

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|------------|--|
| Solubility | DMSO: 60 mg/mL (185.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.0922 mL | 15.4612 mL | 30.9224 mL |
| 5 mM | 0.6184 mL | 3.0922 mL | 6.1845 mL |
| 10 mM | 0.3092 mL | 1.5461 mL | 3.0922 mL |
| 50 mM | 0.0618 mL | 0.3092 mL | 0.6184 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Khier S, et al. Identification of a small molecule that primes the type I interferon response to cytosolic DNA. Sci Rep. 2017 May 31;7(1):2561.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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