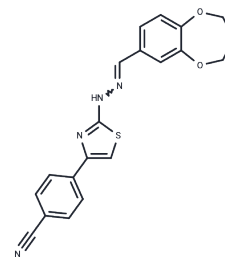


Aldose reductase-IN-6

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2470019-41-9 |
| Formula: | C ₂₀ H ₁₆ N ₄ O ₂ S |
| Molecular Weight: | 376.43 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|--|
| Description | Aldose reductase-IN-6 is a potent AR inhibitor. It reduces sorbitol accumulation and oxidative stress by blocking the polyol pathway, used for diabetic complications such as retinopathy and neuropathy research. |
| Targets(IC50) | Reductase |
| In vitro | Aldose reductase-IN-6 is a competitive inhibitor that binds stably to the enzyme active site with no toxicity [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.6565 mL | 13.2827 mL | 26.5654 mL |
| 5 mM | 0.5313 mL | 2.6565 mL | 5.3131 mL |
| 10 mM | 0.2657 mL | 1.3283 mL | 2.6565 mL |
| 50 mM | 0.0531 mL | 0.2657 mL | 0.5313 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Villiers BR, et al. Mapping the limits of substrate specificity of the adenylation domain of TycA. *Chembiochem.* 2009;10(4):671-682.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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