8-Br-cAMP Solution (10 mM)

Cat. No.: PB180615

Size: 1mL

General Information

Product Form	Liquid
Solvent	Ultrapure water
Concentration	10 mmol/L
Storage	-5~-20°C
Whether to avoid light	Shading light
Shipping	Ice bag
Expiration date	12 months

Background

8-Bromoadenosine 3',5'-cyclic monophosate (8-Br-cAMP) is a form of cAMP that is readily able to infiltrate cells. Its structural modification makes it more resistant to hydrolysis by Phosphodiesterases,resulting in a more stable activation of cyclic AMP-dependent protein kinase(PKA).In cancer research,8-Bromo-cAMP exhibits significant anti-proliferative and pro-apoptotic effects, inhibiting growth and inducing apoptosis in cancer cells. Additionally, 8-Bromo-cAMP promotes alterations in the synthesis and secretion of specific proteins, including subunits of fibronectin and hCG, by regulating mRNA expression.

Notes

1. This product is only used for scientific research or further research, not for diagnosis and treatment.
2. This product was sterilized by 0.1 μm filtration and can be used directly after melting.
3. It is necessary to pay attention to the aseptic operation and avoid the contamination.
4. Before using, the product should be thawed at 2-8°C and shaken thoroughly; repeated freeze-thaw cycles are not advised.
5. If precipitation happens after thawing, the contents can be resuspended by pipetting or vortex mixing. After incubating the solution at 37°C for 20 to 30 minutes or letting it stand at room temperature for about an hour, check to see if the precipitate dissolves as intended. If the product dissolves completely, it can be used as usual.
6. This product is a concentrated solution and should be diluted prior to use as required.
7. The product should be used within a month if stored regularly at 2-8°C. Keep in a frozen state at -5~-20°C for extended storage. Long-term storage at room temperature or between 2-8°C is not recommended. When lesser amounts are required, aliquoting is advised to prevent repeated freeze-thaw cycles.