SB202190 Solution (100 mM)

Cat. No.: PB180610

Size: 0.1mL

General Information

Product Form	Liquid
Solvent	DMSO
Concentration	100 mmol/L
Storage	-5~-20°C
Whether to avoid light	Shading light
Shipping	Ice bag
Expiration date	12 months

Background

SB-202190 is a potent, selective and, cell-permeable p38 MAPK inhibitor that exhibits significant inhibitory activity against p38α (IC_{50}: 50 nM) and p38β (IC_{50}: 100 nM). SB-202190 induces apoptosis through activation of the cpp32-like caspases pathway, and plays an important role in the cellular signaling regulation.

SB-202190 has a wide range of applications in the field of stem cell and organoid research. It can induce the differentiation of human embryonic stem cells to cardiomyocytes and promote the self-renewal ability of neural stem cells. Furthermore, SB-202190 has been extensively employed in the culture of gastrointestinal and mammary organoids, which provides important support for the functional study of organoids and the construction of disease models.

Common working concentration: 10 μM.

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.