Cyclic Pifithrin-Alpha Hydrobromide
Catalogue Number : 5118819

Product Information

**Synonyms:** Cyclic Pifithrin-alpha, 2-(4-Methylphenyl)imidazo[2,1-b]-5,6,7,8-tetrahydrobenzothiazole, HBr, Pifithrin-beta hydrobromide

**Chemical Name:** 2-(4-methylphenyl)-5,6,7,8-tetrahydroimidazo[2,1-b][1,3]benzothiazole;hydrobromide

**Molecular Formula:** $C_{16}H_{16}N_2S$ HBr

**Molecular Weight:** 349.3

**CAS Number:** 511296-88-1

**Purity:** ≥95%

**Applications:** FA

**Formulation:** Crystalline solid

**Storage:** Product should be kept at -20°C.

Description

Cyclic Pifithrin-alpha is a reversible and cell-permeable inhibitor of p53, which plays a crucial role in apoptosis, angiogenesis, and genomic stability. The cyclic form is the more stable and less cytotoxic version of the molecule. It is reported to be capable of increasing the efficiency of inducing pluripotent stem cells.

Preparation & Storage

Soluble in organic solvents such as ethanol or DMSO.

References

1. Liao, J., Marumoto, T., Yamaguchi, S., Okano, S., Takeda, N., Sakamoto, C., ..., Tani, K. (2013). Inhibition of PTEN tumor suppressor promotes the generation of induced pluripotent stem cells. Molecular Therapy, 21(6), 1242-1250.
