

## APJ antagonist-1

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	APJ antagonist-1 is an apelin receptor (APJ) antagonist with potent $\beta$ -arrestin inhibitory activity, exhibiting an IC <sub>50</sub> of 3.1 $\mu$ M. It selectively inhibits cancer cells overexpressing APJ and suppresses apelin-induced endothelial cell migration. The compound demonstrates high metabolic stability and is applicable in research on ovarian cancer and tumor angiogenesis.
In vitro	APJ antagonist-1 (Compound 21) demonstrates significantly greater metabolic stability compared to ML221, with 100% remaining in plasma after 1 hour and a liver microsomal half-life of 5 minutes. At concentrations of 12.5-100 $\mu$ M over three days, it notably reduces the viability of OVCAR8 and HT-29 cells. At 30 $\mu$ M for 8 hours, APJ antagonist-1 significantly inhibits Apelin-induced migration in OVCAR3 cells and HUVECs, showing results that are comparable to or exceeding those of ML211. Cell Migration Assay Cell Line: OVCAR3 cells and HUVECs Concentration: 30 $\mu$ M Incubation Time: 8 h Result: Significantly inhibited apelin-induced migration and the effect was comparable to or even better than ML211.

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