

Catalog	Unit
TBI2380-10MG	10 mg
TBI2380-50MG	50 mg

Product Details

Formal Name: N-(4-Hydroxyphenyl)retinamide

Alternate Names: 4-HPR; MK-4016; Ro 22-4667

Molecular Formula: C₂₆H₃₃NO₂

Formula Weight: 391.60

CAS Number: 65646-68-6

Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 90 mg/ml) or in Ethanol (up to 25 mg/ml).

Storage: -20°C

Stability: ≥ 1 year.

Applications

RAR agonist; dihydroceramide desaturase inhibitor

Functions

Vitamin A (retinoic acid) analog that induces apoptosis in cancer cell lines via RAR-dependent and -independent mechanisms. Agonist for RARs, but with mixed response pattern, believed to be the reason for its low toxicity. Also inhibits dihydroceramide desaturase (IC₅₀ = 2.3 μM), preventing obesity, hyperglycemia, insulin resistance and hepatic steatosis in mice. Inhibits Zika virus infection by interfering with the ZIKV NS5 / importin α/β1 heterodimer interaction and blocking nuclear import. Induces reactive oxygen species (ROS) production and NF-κB inhibition in FLT3-mutated AML cells.

Application Procedures

First dissolved in DMSO (up to 90 mg/ml) or in Ethanol (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.