

PAC-1, Procaspace-3 activator

Catalog	Unit
TBI2979-5MG	5 mg
TBI2979-25MG	25 mg

Product Details

Formal Name: 4-(Phenylmethyl)-1-piperazineacetic acid [[2-hydroxy-3-(2-propenyl)phenyl]-methylene]hydrazide

Molecular Formula: C₂₃H₂₈N₄O₂

Formula Weight: 392.49

CAS Number: 315183-21-2

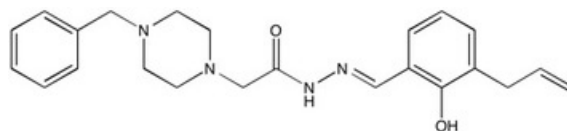
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 35 mg/ml) or in Ethanol (up to 15 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Procaspace-3 activator

Functions

PAC-1 is a procaspase-activating compound, directly activating procaspase-3, producing caspase-3, EC₅₀=0.22 μM. It is less potent at activating procaspase-7, EC₅₀=4.5 μM. It induces apoptosis in a variety of cancer cell lines. The mechanism of activation involves sequestering inhibitory zinc ions thus allowing procaspase-3 to autoactivate. Sensitizes cancer cells to various chemotherapeutic agents.

Application Procedures

First dissolved in DMSO (up to 35 mg/ml) or in Ethanol (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol must be stored under inert gas at -80°C and will be stable for up to 2 months.

For research use only.