

Isopimaric acid, Potassium channel activator

Catalog	Unit
TBI5487-5MG	5 mg
TBI5487-25MG	25 mg

Product Details

Formal Name: (1R,4aR,4bS,7S,10aR)-7-Ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-trimethyl-1-phenanthrenecarboxylic acid

Alternate Names: ISO

Molecular Formula: C₂₀H₃₀O₂

Formula Weight: 302.50

CAS Number: 5835-26-7

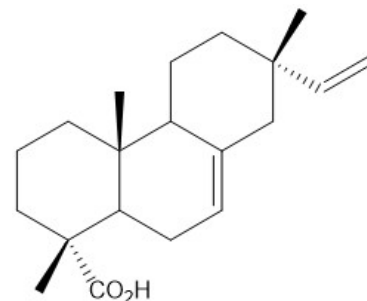
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (40 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Potassium channel activator

Functions

Terpenoid acid that activates BK (voltage-gated potassium) channels when used at 10 μM in HEK293 cells. Improves spatial and non-spatial memory in Alzheimer's mouse model, and significantly improves motor function in a rat spinal cord injury model. Reduces hyperactivity of spontaneously active auditory networks, EC₅₀=7.8 μM.

Application Procedures

First dissolved in DMSO (40 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.