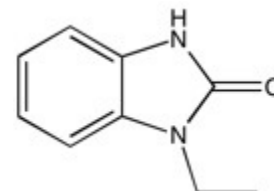


Catalog	Unit
TBI3204-10MG	10 mg
TBI3204-50MG	50 mg

Product Details

Formal Name: 1-Ethyl-1,3-dihydro-2H-benzimidazol-2-one
Alternate Names: 1-Ethylbenzimidazolinone
Molecular Formula: C₉H₁₀N₂O
Formula Weight: 162.19
CAS Number: 10045-45-1
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 30 mg/ml).
Storage: RT
Stability: ≥ 1 year.



Applications

K⁺ channel activator; Cardiomyocyte differentiation

Functions

A direct activator of small-conductance Ca²⁺-activated K⁺ channels (SK) which dose-dependently relaxes rat mesenteric vessels. Reverses ischemia-induced cognitive impairment and displays neuroprotective effects in ischemia-induced neuronal cell death. Induces embryonic stem cell differentiation into cardiomyocytes and enrichment of pacemaker-like cells. Induces production of superoxide and hydrogen peroxide in neutrophils with subsequent apoptosis.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml) or in Ethanol (up to 30 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.