# Tribioscience

# Ionomycin calcium, Ca<sup>2+</sup> Ionophore

Catalog	Unit
TBI2078 - 1MG	1 mg
TBI2078 - 5MG	5 mg

## **Product Details**

### **Applications**

Ca<sup>2+</sup> Ionophore.

### **Functions**

Highly selective nonfluorescent calcium (Ca<sup>2+</sup>) ionophore. In human neutrophils it induces a rapid rise in cytosolic Ca<sup>2+</sup> which is due to both release from cytosolic Ca<sup>2+</sup> stores as well as Ca<sup>2+</sup> influx. It activates (2 mM) and primes (20-200 nM) neutrophil NADPH oxidase. Down regulates beta-catenin/Tcf signaling in a colon cancer cell line via suppressing the binding of Tcf to its specific DNA-binding site. In rat hepatoma cells, sub-lethal ionomycin activates the stress response by activating SAPK/JNK and HSF/HSE interaction leading to upregulation of HSP70 biosynthesis.

6 000

### **Application Procedures**

Ionomycin calcium can be first dissolved in DMSO (up to 10 mg/ml) or ethanol (up to 30mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

#### **Relative Products**

TBI1092	AICAR, AMPK activator
TBI2069	Cytochalasin B
TBI2073	Forskolin, Adenylate cyclase activator
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI1029	Dorsomorphin, AMPK inhibitor
TBI1368	Pepstatin, Aspartic protease inhibitor
TBI1060	Imatinib, Bromodomain inhibitor
TBI1584	JQ1+, Bromodomain inhibitor
TBI2284	Calcimycin, Ca2+ Ionophore

#### For research use only.