## For Research Use Only Phorbol 12-myristate 13-acetate



## Catalog Number: CM00437

| 产品信息 | Catalog Number:<br>CM00437   CAS号:<br>16561-29-8   分子式:<br>C <sub>36</sub> H <sub>56</sub> O <sub>8</sub> 主要靶点:<br>S1P Receptor  NF- × B PKC   主要通路:<br>表观遗传 细胞骨架 G蛋白偶联受<br>体 NF- × B信号通路   | 分子量:<br>616.83<br>溶解度:<br>DMSO:50 mg/mL (81.06<br>mM),H2O:Insoluble  |   |
|------|---|--|---|
| 靶点活性 | PKC:11.7 nM (EC50)  |  |   |
| 体外活性 | that is, a slow sustained activation (3.2-fold  | is observed in the two cell types similar to th<br>and 3.6-fold, respectively at 30 min). The par<br>p38MAPK phosphorylation may be explained  | adoxical findings that PKCs activated   |
| 体内活性 | PMA reverses the damage induced by 5-hyo<br>mitochondrial function in SOD and MDA via   | Iroxydecanoic acid (5-HD). Thus, activation of the PKC pathway [3].  | the mitoKATP protected  |
| 动物实验 | Wistar rats are randomly divided into<br>cerebral ventricle injection of 0.9% n<br>ventricle injection of 0.9% normal sa<br>the Carbenoxolone (CBX) group (n=21<br>30 min before MCAO; (4) Rats in the Sc<br>DZX (2 mM×30 µ L) 30 min prior to MC<br>ventricle injection of 5-HD (100 mM×<br>rats in the DZX + Ro group (n=15) are<br>31-8425 (400 µ g/kg) is injected 15 m   | nale Wistar rats (weighing 250-280 g). O<br>seven groups. (1) Rats in the sham group<br>ormal saline; (2) Rats in the IR group (n=<br>ine 30 min before middle cerebral arter<br>) are given a lateral cerebral ventricle in<br>h-6783 group (n=21) are given a lateral<br>AO; (5) Rats in the 5-HD group (n=21) are<br>10 $\mu$ L), and after 10 min, DZX is injected<br>given a lateral cerebral ventricle injectic<br>in prior to MCAO; (7) The rats in the 5-HI<br>$\mu$ g/kg) after the injection of 5-HD and I | o (n=21) are given a lateral<br>21) are given a lateral cerebral<br>ry occlusion (MCAO); (3) Rats in<br>jection of CBX (5 μg/mL×10 μL)<br>cerebral ventricle injection of<br>e given a lateral cerebral<br>15 min prior to MCAO; (6) The<br>no of DZX, and after 10 min, Ro-<br>D+PMA group (n=15) are given an |
| 细胞实验 | Serum starvation is with 0.1% FCS in t<br>of time as indicated. In general, $\alpha$ T3-<br>L $\beta$ T2 cells only by jetPRIME transfect<br>cells (in 6 cm plates) are transfected v<br>$\mu$ g of the DN-PKCs constructs. For L $\beta$<br>p38 $\alpha$ -GFP along with 9 $\mu$ g of contro<br>Approximately 30 h after transfectior<br>with GnRH or PMA, washed twice with | nonolayer cultured in DMEM in humidifie<br>he same medium for 16 h. GnRH and PM<br>1 cells are transiently transfected by Ex<br>ion reagent. For experiments with domi<br>vith 1.5 $\mu$ g of p38 $\alpha$ -GFP with 3 $\mu$ g of c<br>T2 cells, transfections are performed (i<br>vector, pCDNA3, or with 9 $\mu$ g of the DN<br>, the cells are serum-starved (0.1% FCS)<br>ice-cold PBS, treated with the lysis buff<br>entrifugation (15,000×g, 15 min, 4°C) su<br>].  | A are then added for the length<br>Gen 500 or by jetPRIME, while<br>nant-negative (DN) PKCs, α T3-1<br>ontrol vector, pCDNA3, or with 3<br>n 10 cm plates) with 4 μg of<br>I-PKCs constructs.<br>for 16 h and later stimulated<br>ier, followed by one freeze-thaw  |
| 描述   | Phorbol 12-myristate 13-acetate (PMA) is a  | dual SphK and PKC activator.   |   |
| 储存   | Powder: -20°C for 3 years   In solvent:   | -80°C for 2 years  |   |