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## Product Datasheet

### Ionomycin, CAS [[56092-81-0]] FBM-10-2079

Article Name	Ionomycin, CAS [[56092-81-0]]
Biozol Catalog Number	FBM-10-2079
Supplier Catalog Number	10-2079
Alternative Catalog Number	FBM-10-2079-1MG,FBM-10-2079-5MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Calcium ionophore...
Molecular Weight	709.01
Purity	98% by TLC, NMR (Conforms)
Form	Yellow oil or waxy solid
CAS Number	[56092-81-0]
Formula	C <sub>41</sub> H <sub>72</sub> O <sub>9</sub>
Application Notes	Highly selective nonfluorescent calcium (Ca <sup>2+</sup> ) ionophore. <sup>1</sup> Induces a rapid rise in cytosolic Ca <sup>2+</sup> in human neutrophils which is due to both release from cytosolic Ca <sup>2+</sup> stores as well as Ca <sup>2+</sup> influx. <sup>2</sup> It activates (2 µM) and primes (20-200 nM) neutrophil NADPH oxidase <sup>2</sup> . Down regulates beta-catenin/Tcf signaling in a colon cancer cell line via suppressing the binding of Tcf to its specific DNA-binding site. <sup>3</sup> 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. <sup>4</sup>