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Product Information Sheet

Ordering Information

Product Number: 21000

Product Name: NAADP-AM

Unit Size: 1 mg

Storage Conditions: <=-60 °C and kept from light and moisture

Expiration Date: 4 Weeks at -80°C

Chemical and Spectral Properties

Molecular Weight: 1032.64

Chemical Structure:

Soluble in: DMSO

Application Notes

NAADP (nicotinic acid adenine dinucleotide phosphate) is a recently discovered second messenger. NAADP is negatively charged (to prevent it from leaking out of cells). The negative charge of NAADP makes it well retained in cells, but imposes difficulties in loading NAADP into live cells. NAADP must be injected, loaded via liposomes, or electroporated. These invasive techniques are highly technically demanding and are possible only in certain single cell preparations. NAADP-AM has been reported as a cell-permeant analog of NAADP. NAADP-AM can be taken into cells and induces NAADP-mediated calcium signaling. It can be used in a wide range of systems and will greatly facilitate research into the role of NAADP in biological research. NAADP-AM is extremely unstable, and its stock solution need be used immediately.