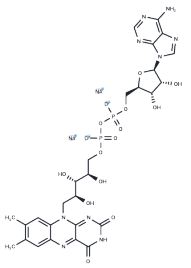
Data Sheet (Cat.No.T5067)

TargetMol

Flavin adenine dinucleotide disodium salt

Chemical Properties



CAS No. : 84366-81-4

Formula: C27H31N9Na2O15P2

Molecular Weight: 829.52

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Flavin adenine dinucleotide disodium salt (FAD sodium salt) is a flavin dinucleotide that is synthesized when the AMP moiety from ATP is transferred onto riboflavin 5'-monophosphate. FAD functions as a coenzyme that facilitates the transfer of electrons by flavoenzymes in oxidation-reduction reactions in cells.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: 10 mg/mL (12.06 mM),Sonication is recommended. DMSO: 50 mg/mL (60.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2055 mL	6.0276 mL	12.0552 mL
5 mM	0.2411 mL	1.2055 mL	2.411 mL
10 mM	0.1206 mL	0.6028 mL	1.2055 mL
50 mM	0.0241 mL	0.1206 mL	0.2411 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Karyakin AA, et al. Electropolymerized flavin adenine dinucleotide as an advanced NADH transducer. Anal Chem. 2004 Apr 1;76(7):2004-9.

Sugiyama S, et al. Protection of chlorpromazine-induced arrhythmia by flavin-adenine-dinucleotide in canine heart. Jpn Heart J. 1979 Sep;20(5):657-65.

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