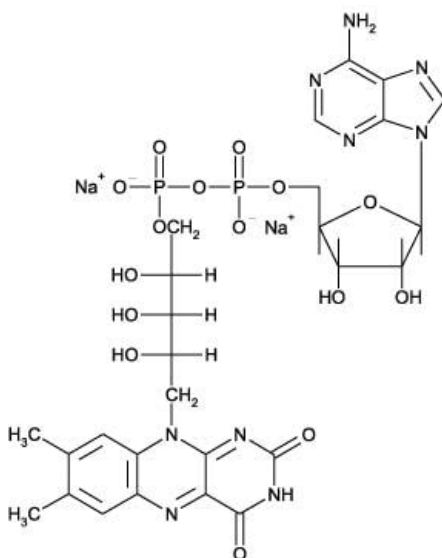


Product datasheet

Flavin adenine dinucleotide disodium salt hydrate (FAD), Redox cofactor of flavoproteins ab144523

Overview

Product name	Flavin adenine dinucleotide disodium salt hydrate (FAD), Redox cofactor of flavoproteins
Description	Redox cofactor of flavoproteins
Biological description	Redox cofactor of flavoproteins. Flavin adenine dinucleotide is a component of pyruvate dehydrogenase complex. Role in nitric oxide synthesis. Active <i>in vitro</i> .
Purity	> 95%
CAS Number	84366-81-4
Chemical structure	



Properties

Chemical name	[[[(2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,5 <i>R</i>)-5-(6-Aminopurin-9-yl)-3,4-dihydroxyoxolan-2-yl]methoxy-oxidophosphoryl] [(2 <i>R</i> ,3 <i>S</i> ,4 <i>S</i>)-5-(7,8-dimethyl-2,4-dioxobenzo[<i>g</i>]pteridin-10-yl)-2,3,4-trihydroxypentyl] phosphate disodium salt
Molecular weight	829.52
Molecular formula	C ₂₇ H ₃₁ N ₉ Na ₂ O ₁₅ P ₂
PubChem identifier	2734019
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12

months.

Solubility overview

Soluble in water to 50 mM

Handling

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

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CC1=CC2=C(C=C1C)N(C3=NC(=O)NC(=O)C3=N2)C[C@@H]([C@@H]([C@@H](COP(=O)
([O-])OP(=O)([O-])OC[C@@H]4[C@H]([C@H]([C@H]([C@@H]
(O4)N5C=NC6=C5N=CN=C6N)O)O)O)O.[Na+].[Na+]
```

Source

Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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