

Riboflavin

Catalog No: tcsc2567



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

83-88-5

Formula:

$C_{17}H_{20}N_4O_6$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO :

Alternative Names:

Vitamin B2;E101

Observed Molecular Weight:

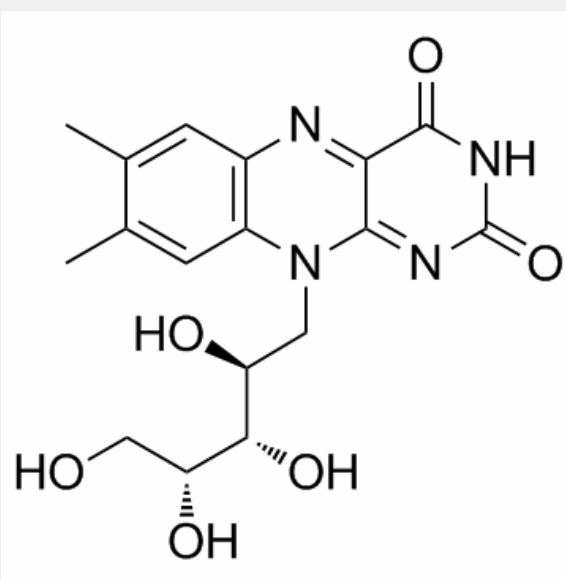
376.36

Product Description

Riboflavin is an easily absorbed micronutrient with a key role in maintaining health in humans and other animals.

Target: Others

Riboflavin (vitamin B2) is the direct precursor of redox enzyme cofactors flavin mononucleotide (FMN) and flavin adenine dinucleotide (FAD), which are essential for multiple cell physiology [1]. Urinary excretion of riboflavin contributes to one-half of the overall removal of riboflavin from plasma. No sex differences were observed for any of the pharmacokinetic variables ($P > 0.05$) [2]. Riboflavin, similar to other vitamins of the B complex, presents anti-inflammatory activity but its full characterization has not yet been carried out. Riboflavin (25, 50 or 100 mg/kg, i.p.), administered immediately and 2 h after the injection of carrageenan, induced antiedema and antinociceptive effects. The antinociceptive effect was not inhibited by the pretreatment with cadmium sulfate (1 mg/kg), an inhibitor of flavokinase. Riboflavin (50 or 100 mg/kg, i.p., 0 and 2 h) also inhibited the fever induced by lipopolysaccharide (LPS) in rats. Riboflavin is a safe drug, is approved for clinical use and exacerbates the antinociceptive effect of morphine, may warrant clinical trials to assess its potential in the treatment of different painful or inflammatory conditions [3].



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