

L-Biopterin

Cat. No. COEC-068

Lot. No. (See product label)

Introduction

Description

L-Biopterin is an important cofactor in the production of many essential neurotransmitters, such as dopamine, serotonin and epinephrine, and plays an important role in the production of nitric oxide in the body. It is produced as an oxidation product by the melanogenesis regulating cofactor (6R)5,6,7,8 tetrahydrobiopterin (6-BH4). L-Biopterin has been shown to be cytotoxic to melanocytes in vitro, and may be a useful noninvasive biomarker.

Applications

A cofactor in the production of many neurotransmitters and nitric oxide

Synonyms

6-Biopterin; L-Erythro-Biopterin

Product Information

Appearance

Powder

Form

Solid

CAS No.

22150-76-1

Molecular Formula

C₉H₁₁N₅O₃

Molecular Weight

237.22

Purity

≥98%

Melting Point

>210° C (dec.)

Boiling Point

590.16° C at 760 mmHg (Predicted)

Solubility

Soluble in 1 N sodium hydroxide or 1N hydrogen chloride; very slightly soluble in water (0.7mg/ml) (ultrasonication). To obtain concentrated solutions, ammonium hydroxide should be added.