Casanthranol

Product Number  C 3298
Storage Temperature  2-8°C

Product Description
CAS Number: 8024-48-4

Casanthranol is a mixture of anthranol glycosides that is isolated from the plant cascara sagrada (Rhamnus purshiana), which is also known as sacred bark. The constituents of casanthranol include cascaroside A. Casanthranol has been classified as containing two fractions, casanthranol A and casanthranol B. Oxidative hydrolysis of both fractions yields different products:

• Casanthranol A yields emodin (Product No. E 7881).
• Casanthranol B yields traces of chrysophanic acid and its aglycone, and aloe-emodin.1

An analysis of casanthranol as isolated from cascara sagrada bark has been reported.2

Whole cascara and the components of casanthranol have been applied to mutagenesis and pharmacology research. Emodin, danthron and aloe-emodin have been shown to cause mutations in mouse lymphoma L5178Y cells and to alter topoisomerase II activity.3 Cascara treatment of rats has been performed to probe its effect on constitutive and inducible nitric oxide synthase activity in the rat colon.4 The effect of sodium diocetyl sulfosuccinate on the cathartic action of casanthranol in animals has been studied.5

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
The solubility of this product is evaluated in water (10 mg/ml), with heat as needed, yielding a slightly hazy to turbid, bright yellow to brown solution.

References
1. The Merck Index, 12th ed., Entry #1929.

GCY/NSB 11/03