PRODUCT DATA SHEET

Castanospermine (alpha- and beta-glucosidase inhibitor)

Catalog number: 1800  
Synonyms: 1,6,7,8-
Tetrahydroxyoctahydroindolizine  
Source: natural, plant  
Solubility: water, methanol/water, 90:10  
CAS number: 79831-76-8

Molecular Formula: C₈H₁₅NO₄  
Molecular Weight: 189

Storage: -20°C  
Purity: TLC: >98%  
TLC System: butanol/acetic acid/DI water (60:20:20)

Appearance: solid

Application Notes:
This product is a high purity alpha- and beta-glucosidase inhibitor. Castanospermine has been shown to be a potent antiviral compound that reduces infection from a number of viruses.¹ Among the viruses inhibited by castanospermine is the human immunodeficiency virus where it inhibits viral replication and syncytium formation. Castanospermine is an inhibitor of both alpha- and beta-glucosidase as well as several other specific enzymes.² Glucosidase inhibitors, such as castanospermine, alters cellular glycosilation which can inhibit angiogenesis and tumor growth.³

Selected References:

This product is to be used for research only. It is not intended for drug or diagnostic use, human consumption or to be used in food or food additives. Matreya assumes no liability for any use of this product by the end user. We believe the information, offered in good faith, is accurate.