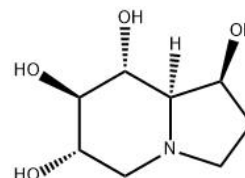


Technical Data Sheet

CASTANOSPERMINE

Compound Information

Product Name:	CASTANOSPERMINE
CAS No.:	79831-76-8
Molecular Formula:	C ₈ H ₁₅ NO ₄
Molecular Weight:	189.21
Storage:	Store at RT
Revision Date:	2026-04-15



Analytical Information

Tests	Specifications
Description	Castanospermine inhibits all forms of α - and β -glucosidases, especially glucosidase I (required for glycoprotein processing by transfer of mannose and glucose from asparagine-linked lipids).
Form	White solid
Color	White or off-white
Melting Point	213-217 °C (lit.)
Specific Rotation	$[\alpha]_{20/D} = 80^\circ$ (C = 0.9 in H ₂ O)
Purity by GC	$\geq 97.5\%$
Solubility	Water 90 mg/mL; DMSO 90 mg/mL
1H NMR	Pass test
IR	Pass test

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.