

Sophocarpine monohydrate

Cat. No.:	OB0225LY-0500
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, HPLC, and LC-MS.
Size:	50 mg; 100 mg; 200 mg; 500 mg

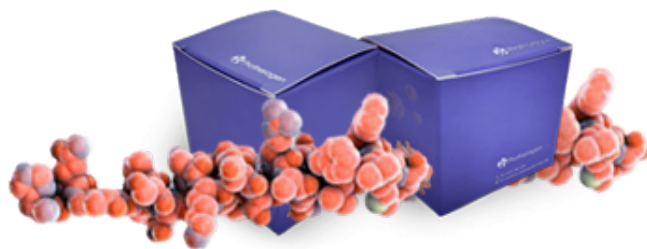
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Sophocarpine monohydrate is a major ingredient of <i>Sophora alopecuroides</i> , has potential roles, such as antitumor, antioxidant and immunomodulatory effects.
Synonym	Sophocarpine; 145572-44-7; 13,14-Didehydromatridin-15-one; (-)-Sophocarpine; Sophoridine hydrate; Matridin-15-one, 13,14-didehydro-; (1 <i>R</i> ,2 <i>R</i> ,9 <i>S</i> -,17 <i>S</i>)-7,13-Diazatetracyclo[7.7.1.0 ^{2,7} .0 ^{13,17}]heptadec-4-en-6-one; 13,14-Didehydromatrine
CAS No.	145572-44-7
Compound CID	115269
Formula	C ₁₅ H ₂₂ N ₂ O
Formula Weight	246.35

Specification

Source	<i>Sophora alopecuroides</i>
Relative Density	1.19 g/cm ³
IUPAC Name	(1 <i>R</i> ,2 <i>R</i> ,9 <i>S</i> ,17 <i>S</i>)-7,13-Diazatetracyclo[7.7.1.0 ^{2,7} .0 ^{13,17}]heptadec-4-en-6-one
InChI	InChI=1S/C15H22N2O/c18-14-7-1-6-13-12-5-3-9-16-8-2-4-11(15(12)16)10-17(13)14/h1,7,11-13,15H,2-6,8-10H2/t11-,12+,13+,15-/m0/s1
InChI Key	AAGFPTSOPGCENQ-JLNYLFASSA-N
SMILES string	C1C[C@H]2CN3[C@H](CC=CC3=O)[C@@H]4[C@H]2N(C1)CCC4
Stability	3 years in powder form.
Storage	Storage at -20°C.



Applications

Sophocarpine monohydrate can be used for tumor cell behavior studies or play an important role in immune response regulation studies.

Library Information

Targets	Kinases
Receptors	Akt; AMPK; PI3K
Pathways	Autophagy; Cytoskeletal signaling; Apoptosis; Microbiology/Virology; Chromatin/E pigenetic; PI3K/Akt/mTOR signaling
Plate Number	AOCL-7
Plate Location	e2
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10 mM DMSO
DMSO Max Solubility	60 mg/mL; 243.56 mM
ALogP	1.187
HBA_Count	1
HBD_Count	0
Rotatable Bond	0