

Product Name	: Tomatine
Synonyms	: lycopersicin
Cat No.	: M19426
CAS Number	: 17406-45-0
Molecular Formula	: C ₅₀ H ₈₃ NO ₂₁
Formula Weight	: 1034.2
Chemical Name	: (2S,3R,4S,5S,6R)-2-(((2S,3R,4S,5R,6R)-2-(((2R,3R,4R,5R,6R)-4,5-dihydroxy-2-(hydroxymethyl)-6-(((2aS,4S,5'S,6aS,6bS,8aS,8bR,9S,10S,11aS,12aS,12bR)-5'6a,8a,9-tetramethyloctadecahydrospiro[naphtho[2'1':45]indeno[2,1-b]furan-10,2'-piperidin]-4-yl)oxy)tetrahydro-2H-pyran-3-yl)oxy)-5-hydroxy-6-(hydroxymethyl)-4-(((2S,3R,4S,5R)-3,4,5-trihydroxytetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-3-yl)oxy)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol
Description	: Tomatine is a glycoalkaloid found in the tomato plant (<i>Lycopersicon esculentum</i> Mill.). Tomatine elicits neurotoxicity in RIP1 kinase and caspase-independent manner. Tomatine promotes the upregulation of nuclear apoptosis inducing factor (AIF) in neuroblastoma cells. Tomatine also inhibits 20S proteasome activity.
Pathway	: Others
Target	: Other Targets
Receptor	: Others
Solubility	: DMSO:96.7 mM
SMILES	: <chem>C[C@H]1[C@H]2[C@H](C[C@H]3[C@@H]4CC[C@H]5C[C@H](CC[C@]5(C)[C@H]4CC[C@]23C)O[C@@H]2O[C@H](CO)[C@H](O[C@@H]3O[C@H](CO)[C@@H](O)[C@H](O[C@@H]4OC[C@@H](O)[C@H](O)[C@H]4O)[C@H]3O[C@@H]3O[C@H](CO)[C@@H](O)[C@H](O)[C@H]3O)[C@H](O)[C@H]2O)O[C@@]11CC[C@H](C)CN1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Bretschneider A. et al. Know your ABCs: Characterization and gene expression dynamics of ABC transporters in the polyphagous herbivore *Helicoverpa armigera*. *Insect Biochem Mol Biol.* 2016 May; 72:1-9.