



Product Information

Soyasaponin Ba

Cat. No.: X23-04-XQ066

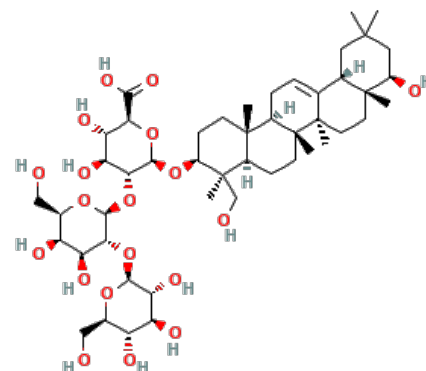
Size: 10 mg; 20 mg; 50 mg; 100 mg

CAS Number: 114590-20-4

Compound CID: 91973815

Synonym: 114590-20-4; Soyasaponin Ba

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



Product Information

Description	Soyasaponin Ba is a soyasaponin that acts as an aldose reductase inhibitor (ARI).
Molecular Weight	959.12
Molecular Formula	C ₄₈ H ₇₈ O ₁₉
IUPAC Name	(2S,3S,4S,5R,6R)-6-[[[(3S,4S,4aR,6aR,6bS,8aR,9R,12aS,14aR,14bR)-9-hydroxy-4-(hydroxymethyl)-4,6a,6b,8a,11,11,14b-Heptamethyl-1,2,3,4a,5,6,7,8,9,10,12,12a,14,14a-tetradecahydropicen-3-yl]oxy]-5-[(2S,3R,4S,5R,6R)-4,5-dihydroxy-6-(hydroxymethyl)-3-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyoxan-2-yl]oxy-3,4-dihydroxyoxane-2-carboxylic acid
InChI	InChI=1S/C48H78O19/c1-43(2)16-22-21-8-9-26-45(4)12-11-28(46(5,20-51)25(45)10-13-48(26,7)47(21,6)15-14-44(22,3)27(52)17-43)64-42-38(34(58)33(57)36(65-42)39(60)61)67-41-37(32(56)30(54)24(19-50)63-41)66-40-35(59)31(55)29(53)23(18-49)62-40/h8,22-38,40-42,49-59H,9-20H2,1-7H3,(H,6,0,61)/t22-,23+,24+,25+,26+,27+,28-,29+,30-,31-,32-,33-,34-,35+,36-,37+,38+,40-,41-,42+,44+,45-,46+,47+,48+/m0/s1
InChI Key	WFRQIKSNAYYUJZ-BKQVBUAGSA-N
Canonical SMILES	CC1(CC2C3=CCC4C5(C)CC(C(C5CCC4(C3CCC2(C(C1)O)C)C)C(C)CO)OC6C(C(C(C(O6)C(=O)O)O)O)OC7C(C(C(C(O7)CO)O)O)OC8C(C(C(C(O8)CO)O)O)O)C
Isomeric SMILES	C[C@]12CC[C@H]([C@]([C@@H]1CC[C@@]3([C@H]2CC=C4[C@]3(CC[C@@]5([C@H]4C



C(C[C@H]5O)(C)C
)C)C)C)(C)CO)O[C@H]6[C@@H]([C
@H]([C@@H]([C@H](O_6
)C(=O)O)O)O[C@H]7[C@@H]([C@H](
[C@H]([C@H](O_7)CO)O)O[C@H]8[C@@H]([C@H]([C@@H]([C@H](O_8)CO)O)O)O

Source	The seeds of <i>Glycinemax(L.)merr</i>
Form	White powder
Purity	>98%, determined by HPLC.
Solubility	It is soluble in water, easily soluble in hot ethanol, and hardly soluble in organic solvents with low polarity such as ether and benzene.
Identity	Confirmed by NMR and MS.
Stability	The product is stable for two years when stored at the recommended temperature.
Applications	Soyasaponin Ba can be used as an aldose reductase inhibitor, <i>etc.</i>
Storage	Store at 4°C. Protect from light.

Safety Information

Personal Protective Equipment	Gloves, eyeshields, N95 mask
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