

Product Datasheet

AKBA (orb1221894)

Catalog Number	orb1221894
Category	Small Molecules
Description	AKBA is an antiangiogenic and neuroprotective agent, reducing the impact of proliferative retinopathies, protecting neurons against ischemic injury involving the Nrf2/HO-1 pathway. It selectively inhibits 5-lipoxygenase (IC ₅₀ = 1.5 μM) in an enzyme-directed, nonredox, and noncompetitive manner. ² 3-acetyl-11-keto-β-Boswellic acid and other members of the boswellic acid family have been studied for potential use in the control of inflammatory diseases, including arthritis and cancer.
Target	Others
Purity	>98% (HPLC)
MW	512.73
Solubility (25°C)	DMSO : ≥ 5.2 mg/mL; 10.14 mM
CAS Number	67416-61-9
Formula	C ₃₂ H ₄₈ O ₅
SMILES	<chem>CC1CCC2(CCC3(C(=CC(=O)C4C3(CCC5C4(CCC(C5(C)C(=O)O)OC(=O)C)C)C2C1C)C)C</chem>
Chemical Name	(3R,4R,4aR,6aR,6bS,8aR,11R,12S,12aR,14aR,14bS)-3-acetyloxy-4,6a,6b,8a,11,12,14b-heptamethyl-14-oxo-1,2,3,4a,5,6,7,8,9,10,11,12,12a,14a-tetradecahydronicene-4-carboxylic acid
Storage	Storage temperature: -20°C. Stability: ≥ 2 years
Note	For research use only

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Expiration Date 12 months from date of receipt.

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