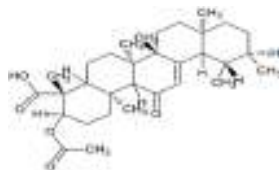


# 3-Acetyl-11-keto $\beta$ boswellic acid

**ALTERNATE NAME:** Acetylketo- $\beta$ -boswellic acid  
AKBA  
3-O-acetyl-11-keto- $\beta$ -Boswellic acid

**CATALOG #:** B2783-5 5 mg  
B2783-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>32</sub>H<sub>48</sub>O<sub>5</sub>

**MOLECULAR WEIGHT:** 512.72

**CAS NUMBER:** 67416-61-9

**APPEARANCE:** White to off-white solid

**PURITY:**  $\geq$ 98%

**SOLUBILITY:** ~5 mg/ml DMSO

**DESCRIPTION:** 3-Acetyl-11-keto  $\beta$  boswellic acid (AKBA) is a naturally occurring pentacyclic triterpene that acts as 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<sub>50</sub> = 1.5  $\mu$ M) in an enzyme-directed, nonredox, and noncompetitive manner. AKBA and its analogues may be useful in place of non-steroidal anti-inflammatory drugs (NSAID) to control inflammatory responses with milder side effects.

**STORAGE TEMPERATURE:** -20°C. Protect from light

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

NDGA (2581)  
5-Lipoxygenase Inhibitor Screening Kit (Fluorometric) (K980)  
Adapalene (B2733)  
Zileuton (B2314)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*