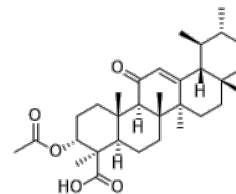


Product Name : AKBA
Cat. No. : PC-27499
CAS No. : 67416-61-9
Molecular Formula : C₃₂H₄₈O₅
Molecular Weight : 512.73
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

AKBA is a bioactive boswellic acid found in frankincense and allosteric, specific inhibitor of **methionine adenosyltransferase 2A (MAT2A)** with MST Kd of 129 nM, shows anti-inflammatory and anti-cancer properties.

AKBA does not interact with MAT2B directly.

AKBA decreases level of S-adenosylmethionine (SAM) and SAM/SAH ratio, and reprogrammed one-carbon metabolism in HaCaT cells.

AKBA inhibits proliferation of HaCaT cells with IC₅₀ of 27.3 μM.

AKBA alleviates both CD18hypo and imiquimod-induced mouse models of psoriasis when applied systemically or topically.

AKBA inhibits the enzyme activity of methionine adenosine transferase 2A (MAT2A) and reprograms one-carbon metabolism in keratinocytes, which accounts for its repression of keratinocyte hyperproliferation.

AKBA moderately inhibits T helper 17 (Th17) cell differentiation.

References

Jing Bai, et al. *EBioMedicine*. 2019 Jan;39:575-590.

Fangzhou Lou, et al. *Br J Pharmacol*. 2024 Apr;181(8):1290-1307.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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