

Bikinin

Catalog No: tcsc3782



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

188011-69-0

Formula:

$C_9H_9BrN_2O_3$

Pathway:

Stem Cell/Wnt;PI3K/Akt/mTOR

Target:

GSK-3;GSK-3

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 42 mg/mL (153.80 mM)

Alternative Names:

Abrasin

Observed Molecular Weight:

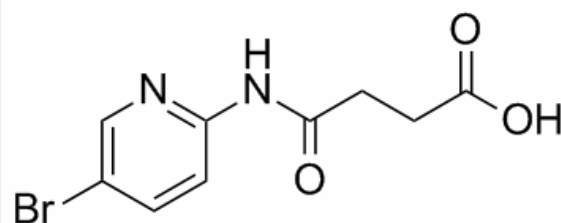
273.08

Product Description

Bikinin is a non-steroidal, ATP-competitive inhibitor of plant **GSK-3/Shaggy-like kinases** and activates BR (brassinosteroids) signaling.

IC50 & Target: GSK-3^[1]

In Vitro: Bikinin reduces transcript levels of NbRBOHB and BR-induced NbRBOHB expression in TRV:00, TRV:*NbDWARF*, TRV:*NbBRI1*, TRV:*NbBSK1*, TRV:*NbBAK1*, TRV:*NbBIK1* and TRV:*NbBSU1* plants. Bikinin largely inhibits BR-increased ROS accumulation. Moreover, Bikinin decreases the transcripts of these six genes in all plants, but fails to down-regulate transcripts of these genes in NbBES1/BZR1-silenced plants. Bikinin also inhabits BR-induced up-regulation of the six genes, and the inhibition effects are compromised in NbBES1/BZR1-silenced plants^[1]. Bikinin is a potent inhibitor of group I and group II ASKs^[2]. Bikinin directly binds the GSK3 BIN2 and acts as an ATP competitor. Furthermore, bikinin inhibits the activity of six other Arabidopsis GSK3s^[3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!