
Product Data Sheet

Product Name: Asperulosidic Acid

Cat. No.: GC35412

Chemical Properties

Cas. No. 25368-11-0

SMILES OC[C@H]([C@@H](O)[C@H](O)[C@H]1O)[C@@]1([H])O[C@H]2[C@@]3([H])[C@@]([C@@H](O)C=C3COC(C)=O)([H])C(C(O)=O)=CO2

Formula C₁₈H₂₄O₁₂

M.Wt 432.38

Solubility DMSO : 100 mg/mL (231.28 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Asperulosidic Acid (ASPA), a bioactive iridoid glycoside, is extracted from the herbs of *Hedyotis diffusa* Willd. Asperulosidic Acid (ASPA) has anti-tumor, anti-oxidant, and anti-inflammatory activities[1]. ASPA is related to the inhibition of inflammatory cytokines (TNF- α , IL-6) and mediators via suppression of the NF- κ B and mitogen-activated protein kinase (MAPK) signaling pathways[2].

Asperulosidic Acid (ASPA) (40-160 μ g/mL; pre- 1 hour) significantly down-regulates the mRNA levels of TNF- α and IL-6 in LPS-induced RAW 264.7 cells compared with the group treated with LPS alone [1]. Asperulosidic Acid (ASPA) (40-160 μ g/mL; pre- 1 hour) decreases I κ B- α phosphorylation in a concentration-dependent manner, decreases Erk1/2 phosphorylation at all concentration levels, but there was no effect on p-p38 [1]. RT-PCR[2] Cell Line: RAW 264.7 cells

[1]. Xianyuan L , et al. Anti-renal fibrosis effect of asperulosidic acid via TGF- β 1/sm α 2/sm α 3 and NF- κ B signaling pathways in a rat model of unilateral ureteral

Caution: Product has not been fully validated for medical applications. For research use only.

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obstruction. Phytomedicine. 2019 Feb;53:274-285. [2]. He J, et al. Asperuloside and Asperulosidic Acid Exert an Anti-Inflammatory Effect via Suppression of the NF- κ B and MAPK Signaling Pathways in LPS-Induced RAW 264.7 Macrophages. Int J Mol Sci. 2018 Jul 12;19(7). pii: E2027.

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