

Product Data Sheet

Product Name: Prunin
Cat. No.: GC39066

Chemical Properties

Cas. No. 529-55-5

SMILES O=C1C[C@@H](C2=CC=C(O)C=C2)OC3=CC(O[C@H]4[C@@H]([C@H]([C@@H]([C@@H]([C@@H](CO)O4)O)O)O)=CC(O)=C13

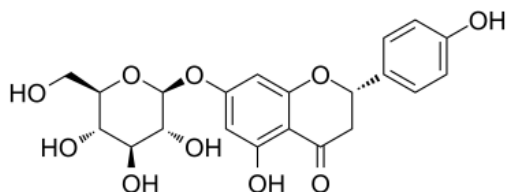
Formula $C_{21}H_{22}O_{10}$ M.Wt 434.39

Solubility DMSO : 100 mg/mL (230.21 mM; Need ultrasonic) Storage 4°C, protect from light

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

Prunin is a potent inhibitor of human enterovirus A71 (HEVA71). Prunin shows strong inhibitory activity against protein tyrosine phosphatase 1B (PTP1B), with an IC₅₀ of 5.5 μM[1][2].

[1]. Gunaseelan S, et al. Prunin suppresses viral IRES activity and is a potential candidate for treating enterovirus A71 infection. Sci Transl Med. 2019 Oct 30;11(516). pii: eaar5759. [2]. Jung HA, et al.

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

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Prunin is a highly potent flavonoid from *Prunus davidiana* stems that inhibits protein tyrosine phosphatase 1B and stimulates glucose uptake in insulin-resistant HepG2 cells. Arch Pharm Res. 2017 Jan;40(1):37-48.

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