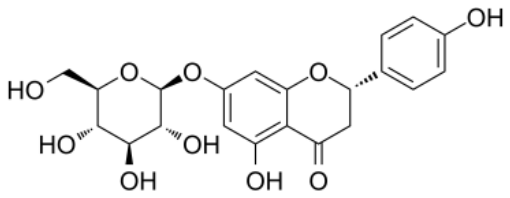
Product Data Sheet

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](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.