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## Product Data Sheet

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Product Name: Meloside A

Cat. No.: GC61605

**Chemical Properties**

Cas. No. 60767-80-8

SMILES O=C1C=C(C2=CC=C(O)C=C2)OC3=CC(O)=C([C@H]4[C@@H]([C@H]([C@@H]([C@@H](CO)O4)O)O)O[C@H]5[C@@H]([C@H]([C@@H]([C@@H](CO)O5)O)O)O)C(O)=C13

Formula C<sub>27</sub>H<sub>30</sub>O<sub>15</sub>

M.Wt

594.52

Solubility

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**

Meloside A (Isovitexin 2''-O-glucoside) is a phenylpropanoid isolated from barley with antioxidant activity. In barley, phenylpropanoids have been described as having protective properties against excess UV-B radiation and have been linked to resistance to pathogens[1][2].

[1]. Jung ES, et al. Metabolite profiling of the short-term responses of rice leaves (*Oryza sativa* cv. Ilmi) cultivated under different LED lights and its correlations with antioxidant activities. *Plant Sci.* 2013;210:61-69. [2]. Brauch D, et al. Changes in isovitexin-O-glycosylation during the development of young barley plants. *Phytochemistry.* 2018;148:11-20.

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

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