Product Data Sheet

Product Name: Rebaudioside F
Cat. No.: GC37076

Chemical Properties

Cas. No.	438045-89-7		
SMILES	C[C@]12[C@@]3([H])[C@@](C4)(CC[C@]1([H])[C@@](C)(CCC2)C(O[C@@H]5O[C@@H]([C@@H](O)[C@H](O)[C@H]5O)CO)=O)C[C@@](C4=C)(O[C@@]6([H])[C@@H]([C@H]([C@H](O)[C@@H](CO)O6)O[C@]7([H])O[C@@H]([C@@H](O)[C@H](O)[C@H]7O)CO)O[C@@]8([H])[C@@H]([C@H]([C@H](O)CO8)O)O)CC3		
Formula	$C_{43}H_{68}O_{22}$	M.Wt	936.99
Solubility	Soluble in DMSO	Storage	Store at -20°C,protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Rebaudioside F		

Background

Rebaudioside F is a natural diterpenoid glycoside compound extracted from the leaves of *Stevia rebaudiana* Bertoni. Rebaudioside F exhibits high sweetness and low-calorie properties. Rebaudioside F can be utilized in the production of natural sweeteners and scientific research fields[1-4].

References:
[1] Starratt AN, Kirby CW, Pocs R, Brandle JE. Rebaudioside F, a diterpene glycoside from Stevia rebaudiana. Phytochemistry. 2002 Feb;59(4):367-70.
[2] Libik-Konieczny M, Michalec-Warzecha Ż, Dziurka M, et al. Steviol glycosides profile in Stevia rebaudiana Bertoni hairy roots cultured under oxidative stress-inducing conditions. Appl Microbiol Biotechnol. 2020 Jul;104(13):5929-5941.
[3] Karimi, M., Ahmadi, A., Hashemi, et al. Effect of two plant growth retardants on steviol glycosides content and antioxidant capacity in Stevia (Stevia rebaudiana

Caution: Product has not been fully validated for medical applications. For research use only.
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Bertoni). Acta Physiol Plant. 2014 Feb 14;36: 1211–1219.
[4] Well C, Frank O, Hofmann T. Quantitation of sweet steviol glycosides by means of a HILIC-MS/MS-SIDA approach. J Agric Food Chem. 2013 Nov 27;61(47):11312-20.

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