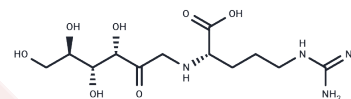


Fructose-arginine

Chemical Properties

CAS No. :	25020-14-8
Formula:	C ₁₂ H ₂₄ N ₄ O ₇
Molecular Weight:	336.34
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fructose-arginine is a non-saponin molecule from Korean Red Ginseng that attenuates AIM2 inflammatory vesicle activation.
Targets(IC50)	AIM2
In vitro	METHODS: LPS-primed BMDM or NLRP3 inflammasome were treated with increasing doses of synthetic fructose-arginine (50, 250, 500 µg/mL) during AIM2 activation. RESULTS: Fructose-arginine treatment significantly attenuated dsDNA-mediated IL-1β release resulting from AIM2 inflammasome activation, but AFG did not alter IL-1β levels. [3]

Solubility Information

Solubility	DMSO: 237.5 mg/mL (706.13 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9732 mL	14.8659 mL	29.7318 mL
5 mM	0.5946 mL	2.9732 mL	5.9464 mL
10 mM	0.2973 mL	1.4866 mL	2.9732 mL
50 mM	0.0595 mL	0.2973 mL	0.5946 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Medeiros RF, et al. Arginine and aerobic training prevent endothelial and metabolic alterations in rats at high risk for the development of the metabolic syndrome. Br J Nutr. 2017 Jul;118(1):1-10.

Yen GC, Tsai LC, Lii JD. Antimutagenic effect of Maillard browning products obtained from amino acids and sugars. Food Chem Toxicol. 1992 Feb;30(2):127-3PubMed PMID: 1555794.

Ahn H, et al. Fructose-arginine, a non-saponin molecule of Korean Red Ginseng, attenuates AIM2 inflammasome activation. J Ginseng Res. 2020 Nov;44(6):808-814.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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