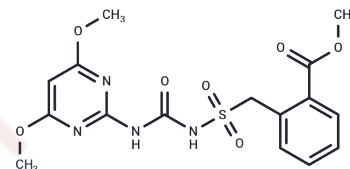


Bensulfuron-methyl

Chemical Properties

CAS No. :	83055-99-6
Formula:	C ₁₆ H ₁₈ N ₄ O ₇ S
Molecular Weight:	410.4
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	Bensulfuron-methyl (F 5384) is a broad-spectrum herbicide for broadleaf weeds in paddy fields.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 82.5 mg/mL (201.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (24.37 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4366 mL	12.1832 mL	24.3665 mL
5 mM	0.4873 mL	2.4366 mL	4.8733 mL
10 mM	0.2437 mL	1.2183 mL	2.4366 mL
50 mM	0.0487 mL	0.2437 mL	0.4873 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

Zhang Y, et al. Optimization of derivatization procedure and gas chromatography-mass spectrometry method for determination of bensulfuron-methyl herbicide residues in water. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2015 Jul 15;995-996:31-7.

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Zhou J, et al. Expression of sulfur uptake assimilation-related genes in response to cadmium, bensulfuron-methyl and their co-contamination in rice roots. *J Environ Sci (China).* 2014 Mar 1;26(3):650-61.

Wei S, et al. Target-site resistance to bensulfuron-methyl in *Sagittaria trifolia* L. populations. *Pestic Biochem Physiol.* 2015 Oct;124:81-5.

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