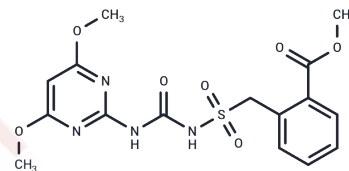


Bensulfuron-methyl

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) |
|------------|---|

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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