

Se-Methylselenocysteine

Chemical Properties

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| CAS No.: | 26046-90-2 |
| Formula: | C ₄ H ₉ NO ₂ Se |
| Molecular Weight: | 182.08 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

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| Description | Se-Methylselenocysteine is a drug potentially for the treatment of solid tumors. Se-Methylselenocysteine exerts pro-apoptosis effects through increasing Cx43 expression, which in turn down-regulates Bcl-2 and up-regulates bad expression. Se-methylselenocysteine offers selective protection against organ-specific toxicity induced by clinically active agents and enhances further antitumor activity, resulting in an improved therapeutic index. |
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Solubility Information

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| Solubility | DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 5.492 mL | 27.460 mL | 54.921 mL |
| 5 mM | 1.098 mL | 5.492 mL | 10.984 mL |
| 10 mM | 0.549 mL | 2.746 mL | 5.492 mL |
| 50 mM | 0.110 mL | 0.549 mL | 1.098 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Yao Z, Zhang Y, Li H, Deng Z, Zhang X. Synergistic effect of Se-methylselenocysteine and vitamin E in ameliorating the acute ethanol-induced oxidative damage in rat. *J Trace Elem Med Biol.* 2015 Jan;29:182-7. doi: 10.1016/j.jtemb.2014.08.004. PubMed PMID: 25213679.
2. Yang H, Jia X. Safety evaluation of Se-methylselenocysteine as nutritional selenium supplement: acute toxicity, genotoxicity and subchronic toxicity. *Regul Toxicol Pharmacol.* 2014 Dec;70(3):720-7. doi: 10.1016/j.yrtph.2014.10.014. PubMed PMID: 25444999.
3. Avila FW, Yang Y, Faquin V, Ramos SJ, Guilherme LR, Thannhauser TW, Li L. Impact of selenium supply on Se-methylselenocysteine and glucosinolate accumulation in selenium-biofortified Brassica sprouts. *Food Chem.* 2014 Dec 15;165:578-86. doi: 10.1016/j.foodchem.2014.05.134. PubMed PMID: 25038715.
4. Cao S, Durrani FA, Tóth K, Rustum YM. Se-methylselenocysteine offers selective protection against toxicity and potentiates the antitumour activity of anticancer drugs in preclinical animal models. *Br J Cancer.* 2014 Apr 2;110(7):1733-43. doi: 10.1038/bjc.2014.85. PubMed PMID: 24619073; PubMed Central PMCID: PMC3974093.

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