

Alyssin

Chemical Properties

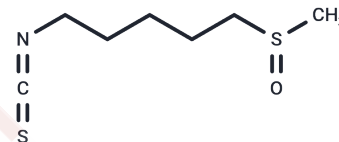
CAS No. : 646-23-1

Formula: C₇H₁₃NOS₂

Molecular Weight: 191.31

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	Alyssin is a sulforaphane homolog and antioxidant. It induces phase II enzymes and increases Nrf2 levels in adenocarcinoma cells. It decreases the metabolism of polycyclic aromatic hydrocarbons, suppressing the risk of carcinogenesis in vitro.
Targets(IC50)	Others, Reactive Oxygen Species, Microtubule Associated

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2271 mL	26.1356 mL	52.2712 mL
5 mM	1.0454 mL	5.2271 mL	10.4542 mL
10 mM	0.5227 mL	2.6136 mL	5.2271 mL
50 mM	0.1045 mL	0.5227 mL	1.0454 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

Lubelska K, Misiewicz-Krzemińska I, Milczarek M, Krzysztoń-Russjan J, Anuszevska E, Modzelewska K, Wiktorska K. Isothiocyanate-drug interactions in the human adenocarcinoma cell line Caco-2. *Mol Cell Biochem.* 2012 Aug;367 (1-2):19-29. doi: 10.1007/s11010-012-1314-y. Epub 2012 Apr 18. PubMed PMID: 22527941.

Skupinska K, Misiewicz-Krzeminska I, Lubelska K, Kasprzycka-Guttman T. The effect of isothiocyanates on CYP1A1 and CYP1A2 activities induced by polycyclic aromatic hydrocarbons in MCF7 cells. *Toxicol In Vitro.* 2009 Aug;23(5): 763-71. doi: 10.1016/j.tiv.2009.04.001. Epub 2009 Apr 9. PubMed PMID: 19362136.

Skupinska K, Misiewicz-Krzeminska I, Stypulkowski R, Lubelska K, Kasprzycka-Guttman T. Sulforaphane and its analogues inhibit CYP1A1 and CYP1A2 activity induced by benzo[a]pyrene. *J Biochem Mol Toxicol.* 2009 Jan-Feb;23 (1):18-28. doi: 10.1002/jbt.20259. PubMed PMID: 19202560.

Misiewicz I, Skupinska K, Kasprzycka-Guttman T. Differential response of human healthy lymphoblastoid and CCRF-SB leukemia cells to sulforaphane and its two analogues: 2-oxohexyl isothiocyanate and alysin. *Pharmacol Rep.* 2007 Jan-Feb;59(1):80-7. PubMed PMID: 17377210.

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