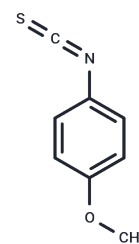


4-Methoxyphenyl isothiocyanate

Chemical Properties

CAS No. :	2284-20-0
Formula:	C ₈ H ₇ NOS
Molecular Weight:	165.21
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	4-Methoxyphenyl isothiocyanate (4-Methylphenyl ITC) is recognized as an antioxidant demonstrating an IC ₅₀ of 1.25 mM for scavenging DPPH free radicals. Its antioxidant capacity, as shown by the ORAC test, is 11.7 mM TE, equivalent to the efficacy of 11.7 mmol Trolox under similar conditions. Additionally, it extends the oxidation process in the Briggs-Rauscher reaction by approximately 9180 seconds. The compound also exhibits moderate cholinesterase inhibitory activity, with an inhibition rate of 30.4% for acetylcholinesterase (AChE) and 17.9% for butyrylcholinesterase (BChE). Research suggests 4-Methoxyphenyl isothiocyanate holds promise for applications in antioxidant and neurological disorder studies.
Targets(IC ₅₀)	Cholinesterase (ChE)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0529 mL	30.2645 mL	60.529 mL
5 mM	1.2106 mL	6.0529 mL	12.1058 mL
10 mM	0.6053 mL	3.0265 mL	6.0529 mL
50 mM	0.1211 mL	0.6053 mL	1.2106 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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