

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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L-Homocystine

MedChemExpress

Cat. No.:	HY-W01169	0	
CAS No.:	626-72-2		
Molecular Formula:	C ₈ H ₁₆ N ₂ O ₄	S ₂	
Molecular Weight:	268.35		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solu	1 mM	3.7265 mL	18.6324 mL	37.2648 ml
	5 mM	0.7453 mL	3.7265 mL	7.4530 mL
	10 mM			

Description	L-Homocystine is the oxidized member of the L-homocysteine. Homocysteine is a pro-thrombotic factor, vasodilation impairing agent, pro-inflammatory factor and endoplasmatic reticulum-stress inducer used to study cardiovascular disease mechanisms.			
IC ₅₀ & Target	Human Endogenous Metabolite			
In Vivo	A single or multiple doses of L-Homocystine administered to mice during organogenesis can aggravate the developmental disturbances caused by a single dose of VPA administered on GD 8. Whereas, VPA lowers significantly plasma FA and vitamin B12 concentrations, it has no direct impact on the homocysteine concentrations. Therefore, it is proposed that high levels of homocysteine disturb the FA, vitamin B12, and possibly methionine metabolism thus providing a favorable situation for VPA to interfere with the development of susceptible embryos ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

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HO

NH2

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PROTOCOL

Animal	Mice ^[1]
Administration ^[1]	Groups of mice are first injected on GD 8 with a single dose of 75 mg/kg of L-Homocystine or an equal volume of saline. One
	half of the L-Homocystine-treated animals then receive a single dose of 600 mg/kg of VPA ((H-HoCys-OH)2+VPA group),
	while the other half are injected with a proportionate volume of saline (L-Homocystine+saline group). In the other
	experiment, mice are treated with a daily dose of 75 mg/kg of L-Homocystine or a proportionate volume of saline starting
	from GD 5 and continue through GD 10. One half of the L-Homocystine-treated animals also have a single exposure to 600
	mg/kg of VPA (L-Homocystine+VPA group) or a proportionate volume of saline (L-Homocystine+saline group) on GD 8. The
	total volume of fluid injected corresponded to the body weight and does not exceed 0.45 ${ m mL}^{[1]}$.
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Padmanabhan R, et al. Effect of maternal exposure to homocystine on sodium valproate-induced neural tube defects in the mouse embryos. Eur J Nutr. 2006 Sep;45(6):311-9

Caution: Product has not been fully validated for medical applications. For research use only.

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