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Produktinformation

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- Diagnostik & molekulare Diagnostik
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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

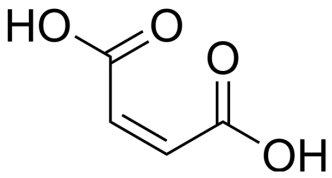
mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Maleic Acid (Standard)

Cat. No.:	HY-Y0367R
CAS No.:	110-16-7
Molecular Formula:	$C_4H_4O_4$
Molecular Weight:	116.07
Target:	Endogenous Metabolite; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Maleic Acid (Standard) is the analytical standard of Maleic Acid. This product is intended for research and analytical applications. Maleic Acid is a Glutamate Decarboxylase (GAD) inhibitor of ***E. coli*** and ***L. monocytogenes***.IC_{50} & Target: GAD[1][2].***In Vitro:*** The MICs of WT 10403S for the acids (e.g., Maleic Acid) are 34 mM, 25 mM, 31 mM and 30 mM which correspond to pH values prior to growth of 4.84, 5.14, 5.32 and 5.02 respectively. Of all compounds tested, Maleic Acid is the least inhibitory despite acting at a lower pH (4.84). The most acid resistant (10403S) and the weakest (EGD-e) strain are challenged with 8.6 mM and 4.3 mM of each organic acid at pH 3 and 3.3 respectively. On both strains, Maleic Acid is the most bactericidal[2].
IC_{50} & Target	GAD[1][2].

REFERENCES

[1]. Fonda ML, et al. Glutamate decarboxylase. Substrate specificity and inhibition by carboxylic acids. Biochemistry. 1972 Mar 28;11(7):1304-9.

[2]. Paudyal R, et al. A novel approach in acidic disinfection through inhibition of acid resistance mechanisms; Maleic acid-mediated inhibition of glutamate decarboxylase activity enhances acid sensitivity of Listeria monocytogenes. Food Microbiol. 2018 Feb;69:96-104.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA