



SZABO SCANDIC

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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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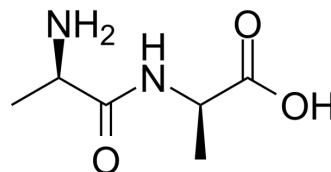
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D-Ala-D-Ala

Cat. No.:	HY-W015450		
CAS No.:	923-16-0		
Molecular Formula:	C ₆ H ₁₂ N ₂ O ₃		
Molecular Weight:	160		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (625.00 mM; Need ultrasonic)
 DMSO : 2 mg/mL (12.50 mM; ultrasonic and adjust pH to 5 with HCl)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	6.2500 mL	31.2500 mL	62.5000 mL
5 mM	1.2500 mL	6.2500 mL	12.5000 mL
10 mM	0.6250 mL	3.1250 mL	6.2500 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

D-Ala-D-Ala constitutes the terminus of the peptide part of the peptidoglycan monomer unit and is involved in the transpeptidation reaction as the substrate. D-Ala-D-Ala is catalyzed by D-Alanine-D-Alanine ligase. D-Ala-D-Ala is a bacterial endogenous metabolite^{[1][2]}.

IC₅₀ & Target

Microbial Metabolite

REFERENCES

[1]. Kitamura Y, et al. Structure of D-alanine-D-alanine ligase from *Thermus thermophilus* HB8: cumulative conformational change and enzyme-ligand interactions. *Acta Crystallogr D Biol Crystallogr*. 2009 Oct;65(Pt 10):1098-106.

[2]. Tytgat I, et al. DD-ligases as a potential target for antibiotics: past, present and future. *Curr Med Chem*. 2009;16(20):2566-80.

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

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