



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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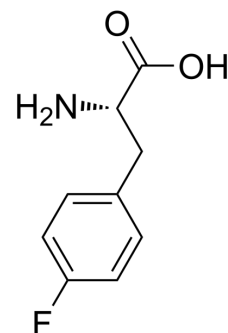
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p-Fluoro-L-phenylalanine

Cat. No.:	HY-W002291		
CAS No.:	1132-68-9		
Molecular Formula:	C ₉ H ₁₀ FNO ₂		
Molecular Weight:	183.18		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
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 : 10 mg/mL (54.59 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	5.4591 mL	27.2956 mL	54.5911 mL
5 mM	1.0918 mL	5.4591 mL	10.9182 mL
10 mM	0.5459 mL	2.7296 mL	5.4591 mL

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

BIOLOGICAL ACTIVITY

Description

p-Fluoro-L-phenylalanine (4-Fluoro-L-phenylalanine) is a substrate for tyrosine hydroxylase (TH) that can be used to study the regulation of that enzyme. p-Fluoro-L-phenylalanine binds to the L-leucine specific receptor of Escherichia coli ($K_D=0.26 \mu\text{M}$)^{[1][2]}.

REFERENCES

[1]. Luck LA, et al. Fluorescence and 19F NMR evidence that phenylalanine, 3-L-fluorophenylalanine and 4-L-fluorophenylalanine bind to the L-leucine specific receptor of Escherichia coli. Protein Sci. 2000;9(12):2573-2576.

[2]. Hillas PJ, et al. A mechanism for hydroxylation by tyrosine hydroxylase based on partitioning of substituted phenylalanines. Biochemistry. 1996;35(22):6969-6975.

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

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