



SZABO SCANDIC

Part of Europa Biosite

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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

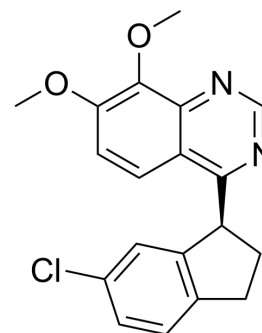
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PF-04822163

Cat. No.:	HY-120741
CAS No.:	1798334-07-2
Molecular Formula:	C ₁₉ H ₁₇ ClN ₂ O ₂
Molecular Weight:	340.8
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PF-04822163 is an orally active, selective, and blood-brain barrier permeable PDE1 inhibitor with IC ₅₀ values of 2 nM, 2.4 nM, and 7 nM for PDE1A, PDE1B, and PDE1C respectively. PF-04822163 can be used in the research of attention deficit hyperactivity disorder or Parkinson's disease ^[1] .							
IC₅₀ & Target	PDE1A 2 nM (IC ₅₀)	PDE1B 2.4 nM (IC ₅₀)	PDE1C 7 nM (IC ₅₀)	PDE2A 5895 nM (IC ₅₀)				
	PDE3A >30000 nM (IC ₅₀)	PDE4D3 7620 nM (IC ₅₀)	PDE5A1 >30000 nM (IC ₅₀)	PDE7B >29800 nM (IC ₅₀)				
	PDE9A1 >30000 nM (IC ₅₀)	PDE10A1 252 nM (IC ₅₀)	PDE11A4 8257 nM (IC ₅₀)					
In Vivo	PF-04822163 (10 mg/kg; p.o.; single dose) achieved a T _{max} of 274 ng/mL in rat plasma at 0.5 h, with a terminal half-life of 5.5 h, and showed blood-brain barrier permeability ^[1] .							
	Pharmacokinetic parameters in rat ^[1]							
	species	route	dose	T _{max} (h)	t _{1/2} (h)	f _u	B/P	CSF/P _u
	rat	p.o.	10 mg/kg	0.5	-	0.028	3.4	1.7
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.							

REFERENCES

[1]. Humphrey J M, et al. Small-molecule phosphodiesterase probes: discovery of potent and selective CNS-penetrable quinazoline inhibitors of PDE1[J]. MedChemComm, 2014, 5(9): 1290-1296.

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

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