

# Selcia Isomerase Profiling Platform

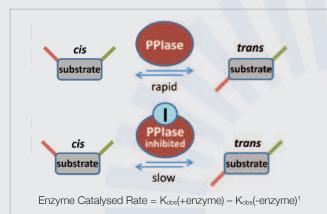
## Unique Panel of Functional and Competitive Binding Assays

Peptidyl-Prolyl *cis-trans* Isomerases (PPlases) catalyse the *cis-trans* isomerisation of the X-Pro peptide bond in polypeptide chains.

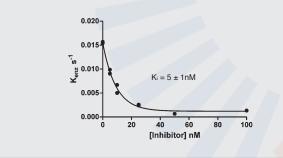
 $\underbrace{\overset{COP_2P_1}{\overbrace{cis}}}_{cis}^{\mathsf{COP_2P_1}} \xrightarrow{\mathsf{P_1}}_{\mathsf{PPlase}} \xrightarrow{\mathsf{P_1}}_{\mathsf{COP_2}}_{\mathsf{COP_2}}$ 

Enzyme family includes Cyclophilins - FK506-binding proteins (FKBP) – Parvulins (incl. Pin1). Inhibitors have important therapeutic potential in the areas of infection, immunology, cancer, inflammation and tissue degeneration.





### CsA in Cyclophilin A Functional Assay

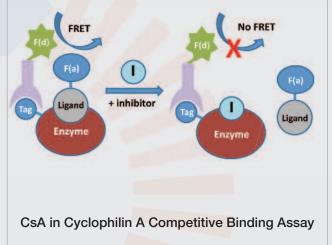


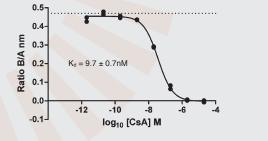
### **Assays Available**

Functional	Competitive
Cyclophilin A	Cyclophilin A
Cyclophilin B	Cyclophilin B
Cyclophilin C	Cyclophilin C
Cyclophilin D	Cyclophilin D
Pin 1	Pin 1*
FKBP12	-
FKBP38*	-
FKBP51	-
FKBP52	-
Counter Assay	Calcineurin <sup>#</sup>

\*in development

Competitive Binding Assay





## Comparison of Cyclophilin Assay Types

Criteria	Functional Assay	Competitive Assay
Assay type	functional	competitive binding
Format	single cuvette	96 well
Detection	330nm	FRET (ratio of two wavelengths)
Deliverable	K <sub>i</sub> value	K <sub>d</sub> value
Lower sensitivity	K <sub>i</sub> >1nM	K <sub>d</sub> >5nM

\*Calcineurin inhibition assay also available to measure the immunosuppression effects of PPIase/inhibitor complexes that bind calcineurin (i.e. Cyclophilin A/CsA or FKBP12/FK506).

1. Jankowski et al. Anal. Biochem. 252, 299-307 (1997).

## If your particular isomerase of interest is not listed, please contact us to discuss further: contact@selcia.com For further details or to request a quote please visit our website page: www.selcia.com

# Selcia Drug Discovery

We aim to be your CRO of choice - applying efficient solutions to your discovery programmes and delivering quality drug candidates for you to develop

High Quality Medicinal Chemistry

Drug Discovery Expertise

**sel**cia

Primary Pharmacology & ADME Quality and commitment to your project are our top priorities. We have a track record of successful delivery of robust drug candidates.

Our staff are drawn from large pharma, biotech and leading institutions and have drug discovery expertise across all major disease areas and target classes.

We provide assay development, pharmacology and ADME services that enable an efficient screening cascade and integrated drug discovery service.

Analytics

Comprehensive analytical services are co-located on site, offering a seamless interface and rapid turnaround.

Compound Libraries & Screening

Proprietary libraries and screening technologies can be used to obtain additional leads against difficult targets.

#### About Selcia

Selcia Limited is a leading provider of contract research services in drug discovery and <sup>14</sup>C radiolabelling, with a GLP analytical laboratory, based in Ongar, Essex, UK.

Selcia drug discovery provides integrated drug discovery services to support academics, charities, biotech and pharma companies. Selcia executes the medicinal chemistry to deliver the best drug candidates, provides pharmacology, ADME and supporting project management, including assistance with grant applications, to ensure project success.

Selcia radiolabelling specialises in <sup>14</sup>C GMP radiolabelling and produces <sup>14</sup>C radiolabelled compounds for a global customer base encompassing both the life sciences and chemical industries. Applications of the radiolabelled products prepared by Selcia include: preclinical and clinical drug metabolism studies; mass balance, microdosing, research and regulatory studies; and environmental fate studies.

#### Selcia Ltd.

Fyfield Business & Research Park, Fyfield Road, Ongar, Essex, CM5 0GS. United Kingdom

+ 44 (0) 1277 367 000 contact@selcia.com www.selcia.com