CREATIVE BIOMART®
Assay Kit

PAD4 Inhibitor Screening Assay Kit

Product Information

Cat.No. Kit-1994

Size

96 wells

Description

Protein Arginine Deiminase 4 (PAD4) is a guanidino-modifying enzyme that functions as a transcriptional coregulator catalyzing the conversion of specific arginine residues to citrulline. Substrates for PAD4 include histones H2A, H3, and H4. PAD4 autocitrullinates itself at several sites, inhibiting its enzymatic activity. PAD4 activity is increased in rheumatoid arthritis, producing an abundance of citrulline-containing proteins that generate an immune response resulting in production of autoantibodies that ultimately attack the host tissues. PAD4 has also been implicated in several other diseases including multiple sclerosis, Alzheimer's disease, glaucoma, and cancer. The PAD4 Inhibitor Screening Assay (Ammonia) provides a convenient, fluorescence-based method for screening human PAD4 inhibitors.

Storage

-80°C

Kit Components

PAD Assay Buffer: 1 vial/30 ml; -20°CPAD4 (human recombinant) Assay Reagent: 2 vials/60 µl; -80°CPAD Substrate: 2 vials/lyophilized; -20°CPAD Stop Solution: 2 vials/1.2 ml; -20°CPAD Ammonia Detector: 2 vials/lyophilized; -20°CEthanol Assay Reagent: 1 vial/2 ml; RT96-Well Solid Plate (black): 1 plate; RT96-Well Cover Sheet: 1 cover; RT

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA