ARG83380
Pyrimidine Dimer ELISA Kit

Package: 96 wells
Store at: 4°C, -20°C

Summary

Product Description	ARG83380 Pyrimidine Dimers ELISA Kit is an Enzyme Immunoassay kit for the quantification of Pyrimidine Dimer in Cell / Tissue genomic DNA
Tested Reactivity	Other
Tested Application	ELISA
Target Name	Pyrimidine Dimer
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	0.8 ng/mL
Sample Type	Cell / Tissue genomic DNA
Standard Range	1.56 - 100 ng/mL
Sample Volume	50 µL

Application Instructions

Assay Time	~3.5 hours

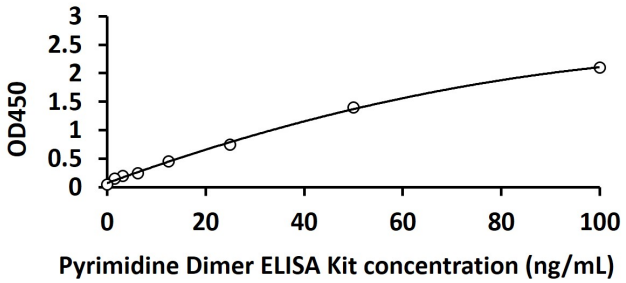
Properties

Form	96 well
Storage instruction	Store components at 4°C, -20°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background	Absorption of ultraviolet (UV) light produces two predominant types of DNA damage, cyclobutane pyrimidine dimers and pyrimidine pyrimidone photoproducts. The result is a transition of C to T and CC to TT, which are the most frequent mutations of p53 in both human and mouse skin cancers. UV damaged DNA is usually repaired by nucleotide excision repair or base excision repair. After UV exposure, cells activate p53 and stall the cell cycle for repair. If the damage is too severe, the cell will trigger apoptosis to get rid of DNA damaged, potentially mutant cells.
Research Area	DNA, MutationDimers (chemistry), DNA replication and repair-deficiency disorders, Senescence, Cyclobutanes

Images



ARG83380 Pyrimidine Dimer ELISA Kit standard curve image

ARG83380 Pyrimidine Dimer ELISA Kit results of a typical standard run with optical density reading at 450 nm.