

ARG80864 Human Melatonin ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG80864 Human Melatonin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Melatonin in saliva.
Tested Reactivity	Hu, Arabi
Tested Application	ELISA
Target Name	Melatonin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	0.5 pg/ml
Sample Type	saliva
Standard Range	0.6 - 25 pg/ml
Sample Volume	200 µl

Application Instructions

Cross Reactivity Note	Reactivity for Arabidopsis is based on product citation, PMID: 27862280.
Assay Time	18 h, 3 h (2-8°C), 1 h, 30 min (RT/shaker)

Properties

Form	96 well
Storage instruction	Store the kit at 2-8°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

Gene Full Name	Melatonin direct
Background	<p>Melatonin plays an important role in the synchronisation and characterisation of sleep-wake cycles. Endogenous melatonin is a hormone produced in the pineal gland during the dark phase of the day-night cycle. Its secretion is controlled by an endogenous oscillator that is inhibited by light. Daytime melatonin levels are low or even undetectable and rise in the evening during decreasing light intensity.</p> <p>Endogenous Clock In humans, circadian Melatonin profiles in body fluids (saliva, serum, plasma) provide an excellent marker for the setting of the endogenous clock. Night-time levels peak at around 03:00 h am (acrophase) in most healthy individuals. As a general modulator of human and other vertebrate biorhythm, Melatonin is involved in the timing of functions such as sleep, mood, reproduction and immune system activities.</p>

Onset of Melatonin Production

Both the intra-individual Melatonin onset and acrophase are very stable. Therefore, it will be sufficient to measure the onset of Melatonin production only, once a whole Melatonin profile has been established. The onset point of melatonin secretion under dim light conditions is called DLMO (Dim Light Melatonin Onset). In contrast to other circadian markers like cortisol, melatonin is the preferred circadian marker because of its robustness even in the presence of various exogenous factors like mental pressure or others.

Highlight

Related products:

[Melatonin antibodies](#); [Melatonin ELISA Kits](#);

Related news:

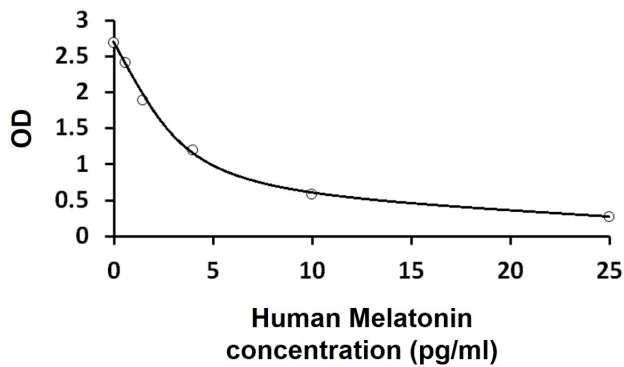
[Besides for human, arigo's Melatonin ELISA kit also works for Arabidopsis](#)

[Baking soda restores circadian clock in tumor cells](#)

Research Area

Neuroscience kit

Images



ARG80864 Human Melatonin ELISA Kit standard curve image

ARG80864 Human Melatonin ELISA Kit results of a typical standard run with optical density reading at 450 nm.