

ARG82800 Human Free Triiodothyronine (fT3) ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82800 Human Free Triiodothyronine (fT3) ELISA Kit is an enzyme immunoassay kit for the quantitative determination of Free Triiodothyronine (fT3) concentration in Human serum.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Cross-Reactivity: L-Triiodothyronine: 100% D-Triiodothyronine: 34% Triiodothyropropionic acid: 20% Diiodo-D-thyronine: 0.5% D-Thyroxine: 0.3% L-Thyroxine: 0.9%
Target Name	Free Triiodothyronine (fT3)
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.3 pg/ml
Sample Type	Serum
Standard Range	2 - 40 pg/ml
Sample Volume	25 µl
Precision	Intra-Assay CV: 6.7% Inter-Assay CV: 8.2%

Application Instructions

Assay Time	1 hour 15 min
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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

Background	L-Triiodothyronine, a thyroid hormone, circulates in blood almost completely bound (>99.5%) to carrier proteins. The main transport protein is thyroxine-binding globulin (TBG). However, only the free (unbound)
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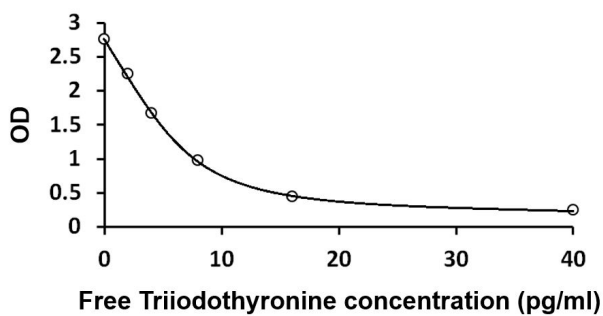
portion of triiodothyronine is believed to be responsible for the biological action. Furthermore, the concentrations of the carrier proteins are altered in many clinical conditions, such as pregnancy. In individuals with normal thyroid function, as the concentrations of the carrier proteins change, the total T3 levels change in concert so that the free triiodothyronine (fT3) concentration remains constant. Thus, measurements of fT3 concentrations correlate more reliably with clinical status than total triiodothyronine levels.

For example, the increase in total triiodothyronine levels associated with pregnancy, oral contraceptives, and estrogen therapy result in higher total T3 levels while the fT3 concentration remains basically unchanged. This microplate enzyme immunoassay methodology provides the technician with optimum sensitivity while requiring few technical manipulations in a direct determination of fT3

Research Area

Signaling Transduction kit

Images



ARG82800 Human Free Triiodothyronine (fT3) ELISA Kit standard curve image

ARG82800 Human Free Triiodothyronine (fT3) ELISA Kit results of a typical standard run with optical density reading at 450 nm.