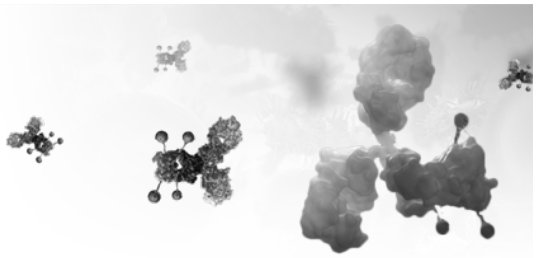

Human DIO2 blocking peptide (CDBP1007)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-DIO2 antibody
Antigen Description	The protein encoded by this gene belongs to the iodothyronine deiodinase family. It activates thyroid hormone by converting the prohormone thyroxine (T4) by outer ring deiodination (ORD) to bioactive 3,3',5-triiodothyronine (T3). It is highly expressed in the thyroid, and may contribute significantly to the relative increase in thyroidal T3 production in patients with Graves disease and thyroid adenomas. This protein contains selenocysteine (Sec) residues encoded by the UGA codon, which normally signals translation termination. The 3' UTR of Sec-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternative splicing results in multiple transcript variants encoding different isoforms.
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	DIO2 deiodinase, iodothyronine, type II [Homo sapiens]
Official Symbol	DIO2

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Synonyms	DIO2; deiodinase, iodothyronine, type II; type II iodothyronine deiodinase; SelY; thyroxine deiodinase; type II; TXDI2; type 2 DI; type-II 5deiodinase; type-II 5-deiodinase; thyroxine deiodinase, type II; type 2 iodothyronine deiodinase; D2; 5DII; DIOII;
Entrez Gene ID	1734
mRNA Refseq	NM_000793
Protein Refseq	NP_000784
UniProt ID	Q92813
Chromosome Location	14q24.2-q24.3
Pathway	Amine-derived hormones, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Regulation of thyroid hormone activity, organism-specific biosystem; Selenium Metabolism and Selenoproteins, organism-specific biosystem; Selenium Pathway, organism-specific biosystem; Thyroxine biosynthesis, organism-specific biosystem;
Function	selenium binding; thyroxine 5-deiodinase activity; thyroxine 5-deiodinase activity; ubiquitin protein ligase binding;

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