T4 – Horseradish Peroxidase Conjugate

- L-Thyroxine – enzyme conjugate with horseradish peroxidase
- Reagent for T4 ELISA with commonly used anti T4-antibodies
- High activity
- Improved stability
Product Data

- product name: T4-HRP
- raw material: horseradish peroxidase type VI-A
- activity: 1500 U/mg solid
- label: T4 (L-Thyroxine)
- quantity: 1 mg / 5 mg / 10 mg
- conjugation ratio: POD/T4: 1:1
- purity: > 99% (HPLC)
- form: lyophilized, essentially salt free
- reconstitution: 1 ml PBS without azide (T4HRP.1)
  5 ml PBS without azide (T4HRP.2)
  10 ml PBS without azide (T4HRP.3)
- lot.: SQT405A
- working dilution (ELISA): 1:5000 – 1:10000
- storage: -20°C, dry
- usage: For research use only. Not intended for diagnostic use.
  Suitable for use in immunoassay development or other applications.
- keywords: thyroxine; T4; T3; thx; thyroinal; Thyrax; Henning;
  tetraiodothyronine, triiodothyronine, diiodophenyl-L-
  alanine; DL-thyroxin

Information

The thyroid hormones, triiodothyronine (T₃) and thyroxine (T₄), are tyrosine-based hormones produced by the thyroid gland that are primarily responsible for regulation of metabolism. Iodine is necessary for the production of T₃ and T₄. A deficiency of iodine leads to decreased production of T₃ and T₄, enlarges the thyroid tissue and will cause the disease known as goitre. The major form of thyroid hormone in the blood is thyroxine (T₄), which has a longer half-life than T₃. The ratio of T₄ to T₃ released into the blood is roughly 20 to 1. T₄ is converted to the active T₃ (three to four times more potent than T₄) within cells by deiodinases (5'-iodinase). These are further processed by decarboxylation and deiodination to produce iodothyronamine (T₁a) and thyronamine (T₀a). All three isoforms of the deiodinases are selenium-containing enzymes, thus dietary selenium is essential for T₃ production.

References


Ordering Information

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
<th>Product Name</th>
<th>Cat.-No.</th>
<th>Price* [EUR]</th>
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<td>T4-HRP</td>
<td>1 mg</td>
<td>T4 horseradish peroxidase conjugate</td>
<td>T4HRP.1</td>
<td>265,- €</td>
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<td>T4-HRP</td>
<td>5 mg</td>
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<td>T4HRP.2</td>
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<td>T4 horseradish peroxidase conjugate</td>
<td>T4HRP.3</td>
<td>1995,- €</td>
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* For bulk package size please inquire. Prices do not contain shipping costs, please inquire. Last updated: 12/2013