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Human Thrombin  
Vial of 1x100 NIH  
Ref. DPGEZ006A

STORE AT  
2-8°C

**FOR RESEARCH USE ONLY.  
NOT FOR USE IN DIAGNOSTIC PROCEDURES**

Origin:

Prepared from a prothrombin complex concentrate extracted from human citrated plasma and fully activated in a purified system. Thrombin is then purified using an ion exchange chromatography and stabilised. It is a highly purified preparation, mainly in the  **$\alpha$  form, with a specific activity of more than 2,000 NIH/mg.**

Presentation:

Thrombin activity is reported in harmonized NIH or IU or USP units by reference to the WHO/NIBSC International Standard for Human Thrombin (01/580) (refer to “A unification of the US (“NIH”) and International Unit into a single standard for Thrombin”, Longstaff et al, Thromb Haemost 2005, 93:261-6)). NIH is a clotting unit for thrombin activity. Stabilised and lyophilised human Thrombin.

Vial containing approximately 100 NIH of thrombin.

Reconstitution:

Each vial must be restored with 1 ml distilled water, in order to get a concentration of about 100 NIH/ml. Dilute in the adequate buffer, if necessary.

Activity:

- Clotting time (at 4NIH/ml) average 13.4 sec
- Clotting time (at 10/NIH/ml) average 4.8 sec
- Chromogenic activity on specific substrate (expressed in nKats):

When tested the following specific activities are observed (expressed in **nKats/ $\mu$ g**):

S-2238
1330x10 <sup>3</sup> nKats/ $\mu$ g

The exact activity in nKats/ $\mu$ g with S-2238 is reported on the analysis certificate for each lot.

Viral safety: Any product of biological origin must then be handled with all the required cautions, as being potentially infectious.

Use: For *in vitro* use only. All research studies and protocols where a source of highly purified human Thrombin is necessary.

Stability:

- Restored:
- 7 days at room temperature (18-25°C).
  - 21 days at 2-8°C.
  - 6 months at -30°C or below.

Lyophilized: Until the expiration date printed on the vial.