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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. Lyophilized from 1 mL of: 10mM MES, 150mM NaCl, pH 6.5 with PEG 8000 @ 20 mg/mL and BSA 10mg/mL. Highly purified, mainly in the **α 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.

Specifications:

When tested in the optimized conditions (0.05M Tris buffer at pH 8.4, containing 0.3M NaCl), the following specific activities are observed:

Chromogenic activity on specific substrate (expressed in nKats/ μ g):

S-2238
2.9 +/- 1.0 nKats/ μ g

The exact activity in nKats/ μ 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.