

Store at
-20°C

Hyaluronidase

#55813

30,000 units

**Cell Signaling**
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For Research Use Only. Not For Use In Diagnostic Procedures.

Description: Hyaluronidase is a glycoprotein isolated from bovine testes that degrades hyaluronan (HA) polymers (1). This enzyme hydrolyzes the endo-N-acetylhexosaminic bonds of hyaluronic acid, chondroitinsulfuric acid A, and chondroitinsulfuric acid C to tetrasaccharide rich oligosaccharides (2). Studies have shown that hyaluronidases have the potential for clinical utility as both biomarkers and therapeutic targets when looking at a variety of cancers (1). Hyaluronidase is an effective enzyme for tissue dissociation (3,4).

Source/Purification: Hyaluronidase is produced from bovine testes. This product is chromatographically purified and dialyzed prior to lyophilization.

Activity: \geq 3,000 units per mg dry weight

Unit Definition: One unit is based on the change in absorbency (turbidity) at 540 nm of an internal standard assayed concurrently with each lot. Internal standard replaces USP/NF reference no longer available.

Storage: Hyaluronidase is supplied as a lyophilized powder. This product is stable for 12 months when stored at -20°C, protected from moisture. *Once in solution, aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use: Hyaluronidase contains 30,000 units and has an optimal pH range of 4.5-6.0. It is recommended to reconstitute with a buffer compatible with the intended assay. Vials should be brought to room temperature prior to opening and they should not be opened in humid areas.

Background References:

- (1) McAtee, C.O. et al. (2014) *Adv Cancer Res* 123, 1-34.
- (2) LUDOWIEG, J. et al. (1961) *J Biol Chem* 236, 333-9.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.