

Product Datasheet

Hydroxyproline Assay Kit (Colorimetric) NBP2-59747

Unit Size: 100 Assays

Store at -20 °C.

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NBP2-59747**Hydroxyproline Assay Kit (Colorimetric)****Product Information**

Unit Size	100 Assays
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20 °C.

Product Description

Description	<p>This kit uses an acidic developer solution to accurately measure hydroxyproline in tissue and protein/peptidase hydrolysates without the use of toxic perchlorates. Featuring a simple and quick protocol, this hydroxyproline assay yields a brightly-colored chromophore with an absorbance peak at 560 nm. The assay can detect a minimum of 0.1 ug hydroxyproline per well in a 96-well format and generates colorimetric results that are virtually identical to the classical perchloric acid-based method.</p> <p>This product is manufactured by Abcam and distributed by Novus Biologicals. (Abcam Catalog Number: ab222941)</p>
Species	Mammal
Kit Components	Oxidation Buffer, Chloramine T Concentrate, Developer Solution, DMAB Concentrate (in DMSO), Hydroxyproline Standard (1 mg/ml), Microplate Sealing Film

Images

Hydroxyproline Colorimetric Assay Kit [NBP2-59747]

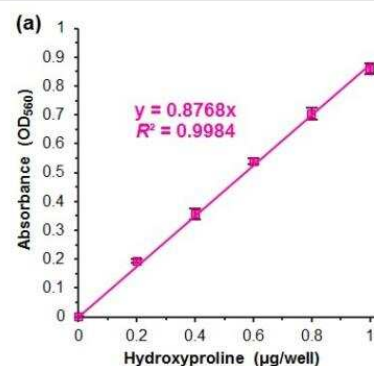


Figure: (a) Hydroxyproline Standard curve.

Hydroxyproline Colorimetric Assay Kit [NBP2-59747]

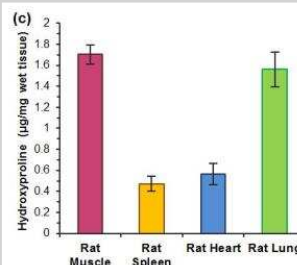


Figure: (c) Estimation of total hydroxyproline content in rat tissues. Rat leg muscle, spleen, heart and lung samples were homogenized with dH₂O, hydrolyzed with 10N NaOH for 1 hour at 120°C and neutralized with 10N HCl. For each sample, 10 µl of the final neutralized hydrolysate was assayed. Hydroxyproline levels (calculated as µg hydroxyproline/mg wet tissue) for the samples were: 1.71 ± 0.09 µg/mg for muscle, 0.47 ± 0.07 µg/mg for spleen, 0.56 ± 0.10 µg/mg for heart and 1.56 ± 0.17 µg/mg for lung. Data are mean ± SEM of 3-4 replicates, assayed according to the kit protocol.

Publications

Bai L, Wang J, Wang X et Al. Combined therapy with pirfenidone and nintedanib counteracts fibrotic silicosis in mice Br J Pharmacol 2024-11-15 [PMID: 39546810]

Bai L, Wang J, Wang X et al. Combined therapy with pirfenidone and nintedanib counteracts fibrotic silicosis in mice AU 2023-01-01 (ELISA)

Song M, Wang J, Sun Y Et al. Inhibition of gasdermin D-dependent pyroptosis attenuates the progression of silica-induced pulmonary inflammation and fibrosis Acta Pharm Sin B 2022-05-09 [PMID: 35530143]

Yang S, Liu P, Gao T et al. Every road leads to Rome: therapeutic effect and mechanism of the extracellular vesicles of human embryonic stem cell-derived immune and matrix regulatory cells administered to mouse models of pulmonary fibrosis through different routes Stem cell research & therapy 2022-04-12 [PMID: 35413874]

Song MY, Wang JX, Sun YL Et al. Tetrandrine alleviates silicosis by inhibiting canonical and non-canonical NLRP3 inflammasome activation in lung macrophages Acta pharmacologica Sinica 2021-08-20 [PMID: 34417574]

Cao Zj, Liu Y, Zhang Z Et Al. Pirfenidone ameliorates silica-induced lung inflammation and fibrosis in mice by inhibiting the secretion of interleukin-17A Acta pharmacologica Sinica 2021-07-27 [PMID: 34316030]

Cao Z, Song M, Liu Y et al. A novel pathophysiological classification of silicosis models provides some new insights into the progression of the disease Ecotoxicology and Environmental Safety 2020-10-01 [PMID: 32622305]





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