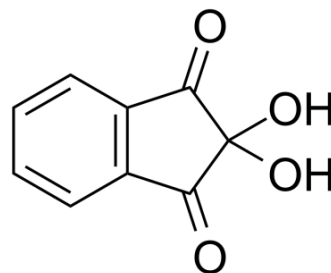


Ninhydrin

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-D0908 | | |
| CAS No.: | 485-47-2 | | |
| Molecular Formula: | C ₉ H ₆ O ₄ | | |
| Molecular Weight: | 178.14 | | |
| Target: | Others | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | Ninhydrin can be used as a chromogenic analytical probe for the quantification of amino acids and proteins. |
| IC₅₀ & Target | IC ₅₀ : chromogenic analytical probe ^[1] |
| In Vitro | <p>Ninhydrin is used in amino acid analysis of proteins. Except proline, Most amino acids can be hydrolyzed and react with ninhydrin. The amino acids are then quantified colorimetrically after separation by chromatography.</p> <p>Ninhydrin reacts with primary and secondary amines producing a blue or purple reaction product: diketohydrindylidene-diketohydrindamine.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

REFERENCES

- [1]. Omar MA, et al. Utility of ninhydrin reagent for spectrofluorimetric determination of heptaminol in human plasma. *Luminescence*. 2018 Sep;33(6):1107-1112.
- [2]. Anantharaman S, et al. Ninhydrin-sodium molybdate chromogenic analytical probe for the assay of amino acids and proteins. *Spectrochim Acta A Mol Biomol Spectrosc*. 2017 Feb 15;173:897-903.

Caution: Product has not been fully validated for medical applications. For research use only.

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