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BRUKER

Instructions for Use

α-Cyano-4-hydroxycinnamic acid

Purified matrix substance for matrix-assisted laser desorption and ionization time-of-flight mass spectrometry (MALDI-TOF-MS).

CARE products are designed to support our worldwide customers with high-quality consumables, accessories and dedicated kits.

The CARE product range is specifically optimized and certified for use with all Bruker Daltonics systems.

www.bruker.com/care

Language: en

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1 Product Description

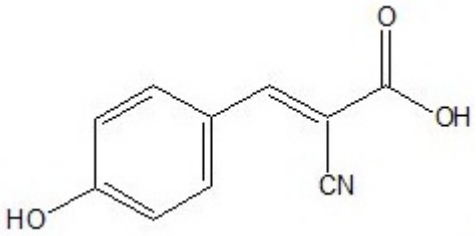
α-Cyano-4-hydroxycinnamic acid is suitable for the preparation of MALDI matrix solution for MALDI-TOF-MS measurement of peptides and proteins. HCCA enables highly sensitive MALDI-TOF-MS measurement of peptides and proteins from 0.7 to 20 kDa.

For preparation protocols, see the *Bruker Guide to MALDI Sample Preparation* (Product Number # 8702557), which is available for download at *www.bruker.com/ifu*.

Synonyms: 2-Cyano-3-(4-hydroxyphenyl) acrylic acid

Molecular formula: $C_{10}H_7NO_3$

Structural formula:



Molecular weight: 189.17 g/mol

CAS-No.: 28166-41-8

EC-No.: 248-879-1

Melting point: 245-250°C

Ordering Information

Product	Part Number
α-Cyano-4-hydroxycinnamic acid, 1 g	# 8201344

2 Inspection, Storage and Stability

2.1 Inspection on Arrival

Check the HCCA package on arrival. If it is damaged, check the tube. If the tube is damaged, the HCCA must not be used. Dispose of the HCCA (tube and package) following the guidelines outlined in the Material Safety Data Sheet for the product and contact Bruker Daltonics GmbH & Co. KG. Service Department (service@bdal.de) for a replacement.

2.2 Storage on Arrival

+2°C		+8°C	HCCA is shipped at ambient temperature. The expiry date on the package is valid for the product when stored in a refrigerator at 2°C to 8°C on arrival.

2.3 Storage after Solubilization

+20°C		+25°C	Dissolved HCCA is stable at controlled room temperature (20–25°C) for up to one week.

3 Risk and Safety Information

HCCA must be labeled according to Regulation (EC) No 1272/2008. Signal word: WARNING.

HCCA is classified as a hazardous chemical: WARNING (H: 315, 319, 335)

For more information, read the Material Safety Data Sheet available for download at www.bruker.com.

Additional chemicals may be required for procedures described in these Instructions for Use. Carefully read the Material Safety Data Sheet provided by the supplier and follow general safety regulations when handling chemicals or biohazardous material.

4 Manufacturer

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For research use only. Not for use in diagnostic procedures.

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Descriptions and specifications supersede all previous information and are subject to change without notice.