

CERTIFICATE of ANALYSIS

PRODUCT:	(E)-4-Hydroxynonenal [HNE] C ₉ H ₁₆ O ₂ , M.W. 156.2, CAS# [128946-65-6]
PRODUCT NUMBER:	H-1112
LOT NUMBER:	A10048
APPERANCE:	Liquid
SOLUBILITY:	Soluble in DMSO (washed with nitrogen) or 100% ethanol.
PURITY (GC): (precursor dimethylacetal)	>95.0%
UV/VIS:	λ max. 221 nm, ε: 14,400
IDENTITY:	Identical to standard reference (determined by ¹ H-NMR)
FORMULATION:	Confirms (Solution in n-hexane [5.25 mg in 1.3 ml])
STABILITY/RECONSTITUTION:	Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free aqueous solution is needed, it can be prepared by

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evaporating the n-hexane and directly dissolving the neat oil in an aqueous buffer. Aqueous solutions of HNE should be kept at neutral pH, since HNE undergoes polymerization in basic and acidic conditions. The solubility of HNE in PBS (pH 7.2) is at least 1 mg/ml. Store aqueous solutions of HNE in ice and use within 6 hours of preparation.

STORAGE & HANDLING:

Keep cool and dry at -80°C.

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT