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## Certificate of Analysis

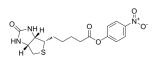
## (+)-Biotin-ONP

Cat. No.:	HY-130888
CAS No.:	33755-53-2
Batch No.:	276913
Chemical Name:	1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-, 4-nitrophenyl ester, (3aS,4S,6a
	R)-

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	$C_{16}H_{19}N_{3}O_{5}S$		
Molecular Weight:	365.40		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

**Chemical Structure:** 



### ANALYTICAL DATA

Appearance:	White to off-white (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Purity (NMR):	≥98.0%
OR(C=0.6490,DMSO):	39.6°
Conclusion:	The product has been tested and complies with the given specifications.

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

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