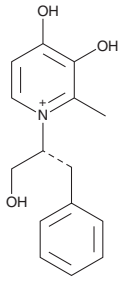
PRODUCT INFORMATION

CN128

Item No. 30833

CAS Registry No.:	2457170-98-6
Formal Name:	3,4-dihydroxy-1-[(1R)-1-(hydroxymethyl)-2-phenylethyl]-2-methyl-pyridinium
Synonym:	R-CN128
MF:	$C_{15}H_{18}NO_3$
FW:	260.3
Purity:	≥95%
UV/Vis.:	λ_{max}: 287 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CN128 is supplied as a crystalline solid. A stock solution may be made by dissolving the CN128 in the solvent of choice, which should be purged with an inert gas. CN128 is soluble in organic solvents such as methanol. The solubility of CN128 in methanol is approximately 5 mg/ml.

CN128 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CN128 should first be dissolved in methanol and then diluted with the aqueous buffer of choice. CN128 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of methanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CN128 is an orally bioavailable iron chelator.[1] It contains a side chain hydroxy group that acts as an alternate sacrificial glucuronidation site to alleviate metabolic inactivation at the 3-hydroxy group. CN128 increases iron mobilization by 24.8% in a ^{59}Fe-ferritin-loaded rat model of iron overload when administered at doses of 150 and 450 µmol/kg.

Reference

1. Chen, W., Yuan, X., Li, Z., *et al.* CN128: A new orally active hydroxypyridinone iron chelator. *J. Med. Chem.* **63(8)**, 4215-4226 (2020).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM