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DATASHEET

CP-91149

Product overview

Name	CP-91149
Cat No	HB0215
Alternative names	CP-91,149
Biological action	Inhibitor
Description	Synthetic GP inhibitor

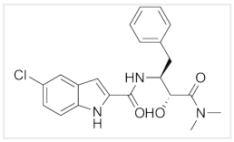
Biological Data

Biological description	Synthetic glycogen phosphorylase (GP) inhibitor (IC_{50} = 0.5 µM). Approx 5-to 10- fold less potent in the absence of glucose. Also inhibits glucagon-stimulated glycogenolysis (IC_{50} = 2.1 µM) and activates glycogen synthase. Displays growth inhibitory properties.

Solubility & Handling

Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	5-Chloro-N-[(1S,2R)-3-(dimethylamino)-2-hydroxy-3-oxo-1-(phenylmethyl)propyl]-1H-indole-2-carboxamide
Molecular Weight	399.87
Chemical structure	
Molecular Formula	$C_{21}H_{22}ClN_3O_3$
CAS Number	186392-40-5

References

Inhibition of glycogen phosphorylase (GP) by CP-91,149 induces growth inhibition correlating with brain GP expression.

Schnier JB *et al* (2003) Biochem Biophys Res Commun 309(1)
PubMedID 12943673

Discovery of a human liver glycogen phosphorylase inhibitor that lowers blood glucose in vivo.

Martin WH *et al* (1998) Proc Natl Acad Sci U S A 95(4)
PubMedID 9465093

Hepatic glycogen synthesis is highly sensitive to phosphorylase activity: evidence from metabolic control analysis.

Aiston S *et al* (2001) J Biol Chem 276(26)

PubMedID	11309391