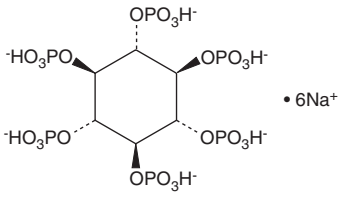
PRODUCT INFORMATION

scyllo-Inositol hexakisphosphate (sodium salt)

Item No. 9002339

Formal Name:	*scyllo*-inositol, 1,2,3,4,5,6-hexakis(dihydrogen phosphate), hexasodium salt
Synonym:	*scyllo*-IP_6
MF:	$C_6H_{12}O_{24}P_6 \bullet 6Na$
FW:	791.9
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥5 years



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

Laboratory Procedures

scyllo-Inositol hexakisphosphate (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the *scyllo*-inositol hexakisphosphate (sodium salt) in water. The solubility of *scyllo*-inositol hexakisphosphate (sodium salt) in water is approximately 50 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

scyllo-Inositol hexakisphosphate is a stereoisomer of inositol hexakisphosphate (IP_6), an organic phosphorous compound found in the environment.[1] *scyllo*-Inositol hexakisphosphate has been identified in soil samples from Madagascar, New Zealand, and the Falkland Islands and in freshwater sediment from Danish lakes.[2,3] *scyllo*-Inositol hexakisphosphate has been used as a negative control for the stereospecific effects of *myo*-inositol hexakisphosphate on $I_{K,in}$ in intact guard cells.[4]

References

1. Turner, B.L., Cheesman, A.W., Godage, H.Y., *et al*. Determination of *neo*- and D-*chiro*-Inositol hexakisphosphate in soils by solution ^{31}P NMR spectroscopy. *Environ. Sci. Technol.* **46(9)**, 4994-5002 (2012).
2. Jørgensen, C., Jensen, H.S., Andersen, F.Ø., *et al*. Occurrence of orthophosphate monoesters in lake sediments: Significance of *myo*- and *scyllo*-inositol hexakisphosphate. *J. Environ. Monit.* **13(8)**, 2328-2334 (2011).
3. Jørgensen, C., Turner, B.L., and Reitzel, K. Identification of inositol hexakisphosphate binding sites in soils by selective extraction and solution ^{31}P NMR spectroscopy. *Geoderma* **257-258**, 22-28 (2015).
4. Lemtiri-Chlieh, F., MacRobbie, E.A., and Brearley, C.A. Inositol hexakisphosphate is a physiological signal regulating the K^+-inward rectifying conductance in guard cells. *Proc. Natl. Acad. Sci. U.S.A.* **97(15)**, 8687-8692 (2000).

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