Product Data Sheet

Product Name: D-myo-Inositol 1,4,5-trisphosphate hexapotassium salt
Cat. No.: GC35887

Chemical Properties

Cas. No.	103476-24-0		
SMILES	O[C@H]1[C@@H](OP([O-])([O-])=O)[C@H](O)[C@@H](OP([O-])([O-])=O)[C@H](OP([O-])([O-])=O)[C@H]1O.[K+].[K+].[K+].[K+].[K+].[K+]		
Formula	$C_6H_9K_6O_{15}P_3$	M.Wt	648.64
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

D-myo-Inositol 1,4,5-trisphosphate hexapotassium salt is the hexapotassium salt of D-myo-Inositol 1,4,5-trisphosphate (1,4,5-IP3), which is a second messenger that stimulates the discharge of calcium from the endoplasmic reticulum.

Second messenger D-myo-Inositol 1,4,5-trisphosphate (1,4,5-IP3) is served as an inositol phosphate derivative. The dissociation constant (KD) for Pr55Gag complexed with D-myo-Inositol 1,4,5-trisphosphate (an inositol with divalent phosphate groups and devoid of lipid groups) is 2170 μM. The binding affinities of D-myo-Inositol 1,4,5-trisphosphate (KD=568 μM) and 1,3,4,5-IP4 (KD=526 μM) for matrix (MA) are almost identical[1].

[1]. Anraku K, et al. Highly sensitive analysis of the interaction between HIV-1 Gag and phosphoinositide derivatives based on surface plasmon resonance. Biochemistry. 2010 Jun 29;49(25):5109-16.

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