

## Hydroxypropyl Cellulose

## Chemical Properties

CAS No. : 9004-64-2

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Hydroxypropyl cellulose (HPC) is a derivative of cellulose with both water solubility and organic solubility, it is used as food additive and sieving matrix for DNA separations.
Targets(IC50)	Others, Interleukin
In vitro	<p>Hydroxypropyl cellulose (HPC) has a relatively low viscosity, allowing for microchip channel filling to be performed with ease at concentrations as high as 5%, a MES/TRIS buffer system at pH 6.1 eliminates the need for surface preconditioning procedures due to the promotion of hydrogen bonding of HPC with the wall. [1] Hydroxypropyl cellulose (HPC) is used as a core molecule for controlled grafting of monomers by ATRP.</p> <p>Hydroxypropyl cellulose (HPC) is either allowed to react with an ATRP initiator or the first generation initiator-functionalized 2,2-bis(methylol)propionic acid dendron to create macroinitiators having high degrees of functionality. [2] Hydroxypropyl cellulose (HPC) /vinyl polymer networks are synthesized in film form from liquid-crystalline solutions of HPC in a mixed solvent of methacrylate monomer/methanol/water (2:1:2 in weight) containing cross-linking agents, via photopolymerization of the methacrylate monomer. The polymer composite films, HPC/PDEGMEM and HPC/PHPMA, prepared at ca. 60-70 wt % concentrations of HPC in the starting solutions, are iridescently colored due to the selective light reflection, originating from the cholesteric helical arrangement carried over successively into the network system. [3]</p>

## Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 4 mg/mL, Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Reference

Sanders JC, et al. Anal Chem, 2003, 75(4), 1986-1994.

Ostmark E, et al. Biomacromolecules, 2007, 8(4), 1138-1148.

Chiba R, et al. Biomacromolecules, 2006, 7(11), 3076-3082.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481