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Title: Self assembled Hyaluronic acid nanoparticles as a potential carrier for targeting the inflamed intestinal mucosa

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1 Amphiphilic hyaluronic acid conjugates were synthesized
2 The amphiphilic hyaluronic acid conjugates readily formed Self-assembled nanoparticles
3 The model of inflammatory CACO-2 cells was prepared
4 the highest expression of CD44 receptor was observed in Inflamed Caco-2 cells
5 HANPs revealed greater uptake in inflamed CACO-2 cells compared to other cell lines
6 Budesonide loaded nanoparticles showed higher anti-inflammatory potential than free drug

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13 **Self assembled Hyaluronic acid nanoparticles as a potential carrier for targeting the** 14 **inflamed intestinal mucosa**

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29 Abstract

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