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15-1012: Poly(I).Poly(C), HMW

Application : Functional Assay
Alternative Name : Polyinosinic-polycytidylic acid, potassium salt (poly (I:C))

Description

MW: High molecular weight (>1.5kb).

Formula: (C10H13N4O8P)x.(C9H14N3O8P)x_K

CAS#31852-29-6

Toll-like receptor (TLR) 3 is an endosomal TLR that mediates immune responses against viral infections upon activation by its ligand double-stranded RNA, a replication intermediate of most viruses. TLR3 is expressed widely in the body and activates both the innate and adaptive immune systems. Toll-like receptor 3 (TLR3), melanoma differentiation-associated gene 5 (MDA5), and retinoic acid-inducible gene-I (RIG-I), all sensors of double-stranded RNA (dsRNA) are potent inducers of antiviral activity. dsRNA sensor activation -e.g. by poly (I:C)- induces pro-inflammatory TNF-α and antiviral IFN-β, but can also enhance the expression of pro-apoptotic proteins. Recently, poly (I:C)-induced cell death recently gained considerable attention as a tool to study the 'Ripoptosome' or 'Necrosome' complex, a novel intracellular signaling complex, thought to induce regulated necrosis, also called 'Necroptosis'.

Product Info

Amount :	2 mg / 1 mg
Purification :	Purity: â‰¥99%
Content :	liquid (1 mg/ml)
Storage condition :	Store the product at 4°C for short term and at -20°C for long-term storage. The product is stable for 2 years at -20°C.

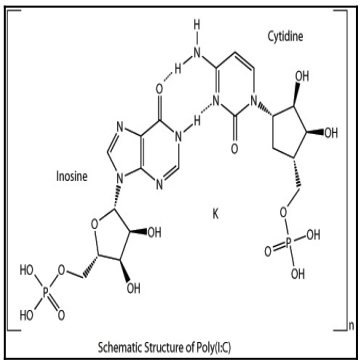

Fig-1: Chemical structure of Poly(I).Poly(C)