

PADI4-IN-1

## Chemical Properties

CAS No. :

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	PADI4-IN-1 is a potent inhibitor of peptidyl arginine deiminase 4 (PADI4), with an IC50 value of 1.5 $\mu$ M and a selectivity index (SI) of 52.1 [PADI1/PADI4]. It effectively suppresses cellular citrullination events and can be utilized in research related to inflammation, such as rheumatoid arthritis.
In vitro	PADI4-IN-1 (Compound 7) (10-100 $\mu$ M, 50 mins) reduces total cellular citrullination events and histone H3 citrullination mediated by PADI4 in HL-60 cell lysates. Western Blot Analysis. Cell Line: HL-60 cells. Concentration: 10 and 100 $\mu$ M. Incubation Time: 50 mins. Result: Decreased PADI4-mediated citrullination.
In vivo	PADI4-IN-1 (Compound 7) at a dosage of 20 mg/kg, administered via intraperitoneal injection on days 3, 4, 5, 6, and 7, can alleviate the severity and pathological progression of rheumatoid arthritis in a mouse model induced by type II collagen antibody/LPS.

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

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