

PDIA1-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

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| Description | PDIA1-IN-1 is an inhibitor of protein disulfide isomerase 1 (PDIA1). It effectively hinders the assembly and activity of the NLRP3 inflammasome, with an IC50 value of 1 μ M. Additionally, PDIA1-IN-1 can reduce the secretion of IL-1 β and is applicable in research related to inflammatory and neurological diseases. |
| Targets(IC50) | Others,Interleukin |
| In vitro | PDIA1-IN-1 (Compound P11) inhibits the formation of ASC-GFP specks in lipopolysaccharide-pretreated THP1 monocytes with an IC50 of 890 nM. In a dose-dependent manner, PDIA1-IN-1 (1.25-2.5 μ M, 2 h) binds to PDIA1 in these cells. It reduces IL-1 β secretion in LPS-pretreated THP1 monocytes at concentrations of 5-10 μ M for 1-16 hours. Additionally, 1 μ M of PDIA1-IN-1 for 2 hours can restore cell viability, whereas 10 μ M for 1 hour decreases cell viability in LPS-pretreated THP1 monocytes. |

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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