
Product Data Sheet

Product Name: NLRP3 Protein, Human (His)
 Cat. No.: GP27283
 Batch No.: 1

Product Data

Purity	>98%	Source	E. coli
Physical Appearance	solid	Shipping Condition	Room temperature in continental US; may vary elsewhere.
Synonyms	Angiotensin/vasopressin receptor AII/AVP-like; Caterpillar protein 1.1; Cold-induced autoinflammatory syndrome 1 protein; Cryopyrin; PYRIN-containing APAF1-like protein 1; NLRP3; NALP3; PYPAF1; CIAS1		
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, 6% Trehalose, pH 7.4 or 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0. Note: For SPR assay, please replace the buffer. Primary amine components (e.g., Tris, imidazole) can affect protein-coupled chips		

Introduction

The NLRP3 protein acts as a sensor in the NLRP3 inflammasome, which is activated in response to membrane defects. It forms a complex with CASP1 and PYCARD/ASC, promotes the release of IL1B, IL18 and GSDMD, and induces pyroptosis. NLRP3 Protein, Human (His) is the recombinant human-derived NLRP3, expressed by E. coli, with C-6*His labeled tag.

Stability

Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Background

The NLRP3 protein acts as a sensor in the NLRP3 inflammasome, which is activated in response to membrane defects. It forms a complex with CASP1 and PYCARD/ASC, promotes the release of IL1B, IL18 and GSDMD, and induces pyroptosis. NLRP3 Protein, Human (His)

Caution: Product has not been fully validated for medical applications. For research use only.

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NLRP3 蛋白 NLRP3 蛋白是炎症小体蛋白家族成员之一，与 IL1B 和 IL18 蛋白共同组成炎症小体。NLRP3 蛋白与 CASP1 蛋白、PYCARD/ASC 蛋白、caspase-1 蛋白、IL1B 和 IL18 蛋白共同组成 Gasdermin-D (GSDMD) 蛋白。NLRP3 蛋白在 ATP 和 β-甘露糖苷酶等刺激下活化，活化后的 NLRP3 蛋白与 T 2 (Th2) 细胞、Th2 细胞、NLRP3 蛋白、IRF4 蛋白、IL4 蛋白等共同组成炎症小体。is the recombinant human-derived NLRP3, expressed by E. coli, with C-6*His labeled tag.

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